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IANUARY 1913

No 1

SECONDARY SCHOOL MATHE-MATICS AND THE MATHE-MATICS TEACHERS*

I chose for the subject of my address
"Secondary School Mathematics and the
Mathematics Tanchers," because I thought,
that a discourse on the Secondary School
Mathematics as it was and as it ought to be,
and on the equipment of the Mathematics
teachers would be a fitting introduction to
your activities in connection with your
Association

I, therefore, first propose to briefly indicate the more salunt features in the Secondary School Mathematics as it was a few years ago and then put in a specified form some of the features of the modern agulation as regards the teaching of Mathematics and thus compare the old with the new so that we may clearly grasp the spirit of the new mathods and thus be in a position to adopt them in actual practice

In former years, the traditional method of mathematical instruction in our achools requir ed that Geometry should be taught in a purely abstract manner, the idea being that Eachd, which was regarded as a model of purely

deductive logic, should be studied entirely with a view to the development of the logical faculty And the result was that the subject began with a set of abstract definitions. postulates and axioms on which the superstructure was to be built, the practical side of the subject was altogether neglected, no appeal was made to the spatial intuition of the child, and any knowledge of space relations which might have been imparted by such a study was reduced to a minimum on account of the excessive meistence upon all the details of the syllogistic form, the attention being engrossed by the effort to commit to memory a long series of propositions of which the geometrical content was exceedingly small On the other hand, Algebra, and to a great extent Arithmetic was taught without any reference to the logical aspects, but purely with a view to give a discipline in the formal manipulation of abstract symbols according to certain prescribed rules without ever attempting to understand what those symbols represented or how those rules were arrived at

That the average boy is not by nature appreciative of formal logic or of the purpose and meaning of abstract symbols was itself considered a reason why the subjects so treated abouid be specially insisted upon it was claimed that these subjects would call forth the use of faculties which were very rare in the average boy and were, therefore,

[•] An address delivered by P V Seshu Alyar, BA LT., Professor of Mathematical Physics Presdency College Madras before the Mathematics Section of the Teachers Association Teachers College Saidapet

thought to be in special need of development. That the subjects were found to be hard and repulsive by the majority was not thought to he, by any means, a disadvantage. It was thought, on the other hand, that the hard discipline involved in their study developed a mental grit and involved a kind of moral training which were in themselves considered valuable, even granting that the intellectual results attained were comparatively small. At the present time, there is a widespread disestisfaction with the traditional methods both in their aims and in their results. The results. obtained under the old system were deplorable. Many rejected the material which was for them wholly indigestable mental food and the system failed to attain even its own narrow ideals except in the case of a very few who were gifted with a special aptitude for the subiscts. And even these fortunate few suffered from the effects of the parrow conception of education which lay at the base of the methods of instruction. For, the purely abstract treatment of the subjects failed to disclose the intimate relations of the mathematical ideas with the physical experience in which these abstractions took their origin. That Enclid had any relation with the problems of space, was seen by the majority of those who suffered under the old system. only at a later stage, if at all. That the abstract symbols used in Algebra were closely related to the concrete objects and that the use of those symbols involved an economy of thought, remained for the most part unannreciated. And even the very few who had acquired a good facility in the maninglation of these symbols came to appreciate these relations only after mature reflection in later life.

2

As a result of this growing discontent

with the old methods, and owing to the exertions of Associations like the London Mathematical Association, all these have changed in England and in America and new methods are being introduced. And as a consequence in India too, it is satisfactory to note that there is a gradual change though the change could be a little more rapid.

The methods of teaching advocated at present largely conform to the dictates of psychology and appeal to those interests which are strongest in the average boy.

His interests are rather practical than theoretical, therefore, it is thought that be must be interested with the space relations on their practical side. He is not interested in formal logic, therefore it is thought that he should not be made to learn a series of propositions of which the object is not anparent to him, Anything abstract and altogether new will be repulsive to him, therefore it is thought that Geometry should not been with a series of abstract definitions and axioms but that they should be introduced only as they are wanted and that the applied should be built upon the previously existing spatial intuition of the child. Consequently, instead of riding against the most undeveloped sides of his mind, as was done under the old system. Geometry, the science of spatial relations, is introduced by an observational and experimental study of the simplest anatial relations, verification by actual measurements playing an important part, and the formal deductive treatment of the subject is postponed to a later stage.

Again, the average boy does not readily move in the region of abstract symbolism. Therefore it is thought that Arithmetic should begin with the handling of concrete objects, be introduced as generalised Arithmetic with saitable geometrical and graphical illustrations and even this only at a stage when he feels the need for generalised symbols

The average boy will be too impatient to know whether his results are correct as can be seen from his readiness to refer to the answers in a book Hence books containing answers should not be put into his hands and this impatience on his part must be availed of in instilling in him the need for verifying and checking his results. The average boy is averse to laborious exercises in manipulation and therefore, it is thought that he should not be bored with tiresome exercises such as the multiplication and division of very long numbers, the simplification of complicated fractions, factorization of long algebraic expressions and solution of ingeniously manufactured equations The average boy would like to know why on earth he is made to study these subjects and hence, it is thought that as far as possible, problems occurring in real life, specially those that occur in his life should be set so as to make him realise the close relation of Mathematics with the physical universe and the life around him He has got much of spontaneous physical activity and likes to be doing something or other Therefore, it is thought, that he must be given exercises in paper folding and card board modelling in illus tration of the theoretical principles he has learnt and that he should be made to take measurements and manufacture his own data for problems in mensuration and heights and distances

In short, the modern tendency may well be expressed, as has been happily done by Professor Hobson, by the one word "Demo-

cratisation of Mathematical teaching," **e,
"the transformation of themethods of teaching
and the matter of instruction so as to meet
the needs of those who are lacking in exceptional capacity for Mathematics," in other
words the concentration of the attention of
the adecator, in a much greater degree that
formerly, on the work of developing the
minds of the average many, and not solely of
those of the exceptionally gifted few
It that be the sum and ad substance of the

It that be the sum and substance of the modern tendency then, there naturally arises the criticism that justice will not be done to this minority who, by natural apitude, are capable of making much more rapid progress than the rank and file. That is certainly a pertinent criticism and there is such a danger under the new system, but then we can avert this by making a special provision in our schools for the more rapid advance of the specially grited pupils by way of giving them some special exercises, and there is no fear at any rate in our country, that any such special provision would be regarded as andemocratio in principle

Thus far I have simply indicated on broad lines, some of the undestrable features of the old system and some of the salutary changes advocated by the new school But the working out of these principles in detail is not an easy task The acceptance of a theory is one thing and the translation of it into actual practice is altogether a different thing The latter is beset with many d fliculties and gives room to much difference of opinion In England, for example, it is nearly a decade since the new principles were universally accepted by all bodies and get the introduct on of the reform methods into actual practice cannot be said to have come to a condition of equilibrium in that country. As judged from the text-books on Elementary Mathematics and from the currout literature on the subject, one can see that there are some directions in which the reform movement has not gone far enough, while there are others in respect of which the over-outhosissile reformers have shown a tendency to go to far. Also there seem to be many points which have given rise to much difference of opinion and which are

I shall berein draw your attention to some of the points which in my opinion have not yet been satisfactorily solved and which may well engage the attention of the Mathematics

still at the discussion stage.

teachers of this country. We have accepted the principle that Arithmetic must begin with the handling of concrete objects, models and the like and that it must be well correlated with space work. Yet in the beginners' Arithmetics that are recently published, for instance, Longman's Practical Arithmetics, you find that the first exercises in space work that are provided in the books relate to lines straight or curved and not to solids as one would expect under the new system. Lines themselves are abstractions from solid objects and hence observation and handling of solid objects must certainly precede the exercises on lines. Again in the curriculum of studies laid down for our Elementary schools you will find the item "space and number work." I have asked several Elementary schoolmasters and Supervisors of Elementary schools as to what they are doing under the item "space work." Many of them candidly confessed to ma that they did not know what exactly was meant by space work and that they were doing little or pothing under that item. I should think that, in the elementary schools, the pupils

should be given suitable exercises in paperfolding, paper-cutting, drawing of objects, construction of solids with card-board, etc. And a suitable supply of such exercises is a field of work for you, my friends, both, when you are here and after you leave this college. Secondly, one of the principles advocated under the new avatem is that we must interest the populs in the study of mathematics by giving them problems occurring in their own life and in the life around them. In the manufacture of problems from real life so as to interest the Indian pupils, much has to be done by the Indian teachers. There lies upon them a heavy responsibility in respect of this point as there is a special danger in this connection. For, most of the text-books used in India are English publications and they naturally contain only problems taken from English life, which problems will have an air of unreality when set to Indian students. In the bands of a teacher who is not sufficiently active and enthusiastic in his work, there is a likelihood of those text-books being too closely followed and hence arises the special danger I have mentioned. I do not object to the use of English publications in our schools. Far from it, for we derive our inspiration and guidance only from Englishmen and English books; but my contention is that the text-books should not be too closely followed. In teaching principles we may well follow the English text-books but in setting problems, we must take them from Indian life. Further even in England and America the reform school is not quite satisfied with the kind of problems to be found in the modern text-books. There the contention is that there should be more of real applied problems taken from actual life than are to be found in the modern books. In America some

three years ago, a regular movement was set on foot for a collection of such real applied problems taken from actual life, such as the life of the engineer, the architect, the agri colturist, the surveyor, the artison, &c, and a few pages of the journal called "The School Science and Mathematics" were set apart for the publication of such problems Some such thing will have to be done in India too if we want that real problems should be set to our students so as to interest them in the study of Mathematics

A third point I would like to refer to is the correlation of the several subjects of Mathematics. The old system of treating the several subjects of Elementary Mathema tics in water tight compartments is considered artificial and mischievous. The reform school wants that the subjects should be well corre lated with one another so as to enable the atudents to realise that all Mathematics is one and that it is only the different methods of treatment that give rise to the different aubjects Such a correlation will also lead to the better understanding of the several subjects. In the modern books, this correla tion is well effected as regards Arithmetic and Algebra and Arithmetic and Geometry , but as regards Geometry and Algebra, though some correlation is attempted, the extent of such correlation cannot be said to be satisfactory If you take any modern book on Geometry you find only practical, graphical and numerical questions given in abundance but only very few questions involving the use of Algebra except in connection with the matter corresponding to old Euclid Book II

The use of algebraic forms of expression and solution in the Geometry courses is of

advantage to both Geometry and Algebra and this may be done without encroaching upon the field of analytical Geometry which belongs to a later stage. For instance the notation may be more algebraic than at present Small letters may be used to represent numerical values and capital letters to denote points. This will enable the students to recognise the relations of equality and inequality more readily. He will also be able to see which propositions are metric and which are descriptive.

5

Again many propositions may be stated to advantage in algebraic form thus giving definiteness and perspicuity and specially emphasising the notion of lanctionality Aigebraic statements are superior in point of brevity and conciseness and they also prepare for the idea of functionality which is little understood by our High school students at present That is to say some appreciation of the influence of changing one part of a configuration on the other parts of the configuration can be gained readily by the algebraic statement As illustrations of such statements we have (1) \$\Delta == \frac{1}{2} bh (2) in a right angled \triangle , $c^2 = a^2 + b^2$, (3) in any \triangle . $c^3 = b^2 + b^3 \pm 2ap$ where p is the projection of b on a. (4) in a @ Euclid III, 35 and 36 may be written ab = $r^2 - d^3$, (5) $t^2 = iz$, where t is the tangent s, the whole secant and x the part outside. It is not to be understood that the usual statement of propositions should be replaced by algebraic statements but it is only meant that one form should be translated into the other

Further geometrical exercises for algebraic solution may be largely given I mean exercises like the following:—'1) area of rectangle is 450 eq. in If each side is one such longer the area is increased by 47 eq. in,

enlas .

Find the sides: (2) a secant which passes through the centre of a circle of radius 12 in. meets a tangent 15 m, long. Find the length

of the external part of the secant, &c., &c. Thus, centlemen, a greater correlation of Alpebra with Geometry is a subject which

may well sugage the attention of our teachers. Fourthly I should like to refer to a point in respect of which the over-enthusiastic reformers show a tendency to go to the other extreme. It is true we have accepted the principle that in the teaching of Mathematics. we must proceed from the practical, concrete and experimental side of the subject to the more abstract and theoretical side of it. But the actual translation of this principle into practice appears to have gone to an undesirable extent. In England, it is feared at present, and the recent text-books give room for such a fear, that the purely practical side of Mathematics is unduly emphasised. Though the teaching should commence with this side and should never lose touch with it, yet the study of Mathematics must be pronounced to be a relative failure as an educational instrument, i.e, as an instrument for training boys and girls to think accurately and independently, if it fails to rise beyond the purely practical aspect of the subject to the domain of principle. In this country also, I am afraid, there is a notion obtaining in some quarters that under Elementary Mathematics of the School Leaving Certificate scheme, we have to teach only practical Mathematics pure and simple and that it would be enough if the students are able to perform the processes, no matter whether they understand or not the principles involved in those processes. This, I beg to submit, is an erroneous notion. Practical Mathematics may provide a set of practical rules for dealing with practical problems of special types: but they can never give the students the culture claimed for Mathematics nor the power to effectively attack problems of various kinds that may arise in their future life in connection with professional work. Such a power can be found only in persons who possess a real grasp of mathematical principles as distinct from a mere knowledge of certain prescribed rules and methods. I have thus noted down in detail four of

factorily solved or in respect of which there is still some difference of oninion. Many more such points can be enumerated such as: (1) the desirability of the inclusion in our lligh School curriculum of some rudimentary and informal treatment of the properties of simple figures in Solid Geometry, similarly the inclusion of (a) Elements of Trigonometry, (b)

the points which have either not been satis-

Elements of Mechanics, (c) Elements of Cal-(2) the desirability of having one and only one sequence in respect of geometrical theorems:

- (3) the introduction of limits and incom-
- mensurables in the school: (4) the judicious use of graphs ;
- (5) a satisfactory introduction to parallel straight lines ; (6) provision of some field-work in Ele-
- mentary Geometry in connection with problems on heights and distances ; (7) the treatment of contracted methods
- and approximation;
- (8) introduction of logarithms, etc., etc.,

Gentlemen, I have thus indicated to you the spirit of the reformed methods and drawn vonr attention to some of the points which have not yet been satisfactorily solved and which may well engage the attention of the Mathematics teachers of our country,

Now I pass on to the questions, what should be the equipment of the teacher and how should the educational system of the country be organised so that the reform methods may be worked out in detail in the right direction

First of all it must be understood that the better the theory underlying the methods of instruction, the more exacting will be the demands made upon the skill, the knowledge and the energy of the teacher Therefore, hereafter, it will not do if the teaching of Vathematics be entrusted to a teacher who has not made a special study of the subject The old method of making the pupils repeat by rote propositions of Euclid, or of setting a long row of sums in Algebra and loung ing in the chair must go If the results hoped for under the new methods should be attained, a bigh degree of proficiency on the part of the teacher is very essential He must have a broad knowledge of the spheet reaching much beyond the range which he has directly to teach I should think that to be an efficient Secondary school teacher, one should have gone through a thorough course in Arith metic, Algebra, Geometry and Elements of Triconometry and a fairly good course in Trigonometry, C. llege Algebra, Analytical Geometry and the Flements of Calculus Also a consenn the History of Mathematics and some work in Theoretical and Practical Physics may profit ably be included in the programme. Not only should be have gone through such a general course in Mathematics but he should also be clever and alert in handling a class and be must possess a high degree of skill to present ing his material, that skill having been devel oped by training in a training college where the programme should include (1) a course in child psychology and theory of knowledge,

sects by specialists, and (3) actual teaching under the supervision of such specialists In this connection, it is gratifying to see that your College as organised at present and being manned by special sts does satis factorily provide all these courses only such a teacher as has gone through a general course and a pedagogical course in Mathematics that can feel confident to speak with authority on the subject and it is only such a one that will be bold enough to come forward with suggestions in the detailed development of the reform methods In England and Germany none but Mathematics graduates are entrusted with the teaching of Secondary School Mathematics and those countries consequently show a great proficiency in Mathematics But here in India it is only of late that we have begun to entrust the teaching of Mathematics to Mathematics graduates and that too only in the upper forms of our Secondary Schools Unless and until all the teachers of our Secondary schools including those in the lower forms engaged in the teaching of Mathematics are Mathematica graduates we cannot hope to have the reform methods satisfactorily introduced into our country. In this connection we should be glad to note that in the proposed model schools, the salaries to be paid to teachers will, as judged from a recent pronouncement of Mr. Montagu be such as to make it possible to arcure the services of graduates as teachers in those schools However well equipped the teacher may initially be, he cannot hope to do metice to his work unless to manages not to forcet the Mathematics le has learnt while at college and unless he keeps himself constantly in touch with the current literature on Hementary Mathe-

(2) observation of the teaching of the sub

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matics as found in the journals and magazines. Further and after all, the proper equipment of the teacher is only one part of the organization necessary for the purpose. We have seen that the actual translation into practice of the reformed methods leads to much difference of opinion and involves many difficulties. Consequently, continued discussion of the details, comparison of notes and exchange of ideas among the teachers are very essential and will be of inestimable value in directing aright the detailed development of the reformed methods of teaching. And this work can and ought to be done in connection with the Teachers' Association of the Presidency and it is exactly here that I have a melancholy tale to tell you. I am sorry to have to remark that the Mathematics teachers of our Secondary Schools do not seem to be very enthusiastic in the matter of this exchange of ideas and comparison of notes as regards the detailed development of the reformed methods. It is seldom that you meet with a teacher coming forward with his experiences in the introduction of the reformed methods : not that he is too solf-sufficient and thinks that he has nothing to learn or nothing to teach. On the other hand he simply looks up to other people to work out even the details for him and he wishes to be told definitely sa to what exactly he should do. So long es the teachers continue to be merely passive workers, i.e., not taking the initiative themselves but merely willing to do what they are asked to do, we cannot expect the reformed methods to be estisisctorily introduced. I make this observation about the teachers from personal experience. As the Secretary of the Mathematics Science Section of the Madras Teachers' Guild I wanted that the section

should do some work in the direction of the detailed working out of the reformed methods, but the teachers of this town do not come forward with any experiences of their own nor are they very anxions to take part in any of the discussions that may be led by some individual teachers.

Further, the detailed development of the reform methods requires that teachers should be given a good latitude and a free hand in the teaching of the several subjects and fortunately such a latitude and freedom is made possible under the present School Final scheme. The S. S. L. C. Board, while drawing up the syllabuses in the several subjects, seem to have had this point prominently before them, viz., that there should be left some scope for individuality and freedom for the teacher, and they therefore purposely gave only the main headings in the several syllabuses leaving it to the teacher to fill in the details. Also in the papers set for the Public Examination a good choice is being given to the students so that if a teacher has developed the subjects in his own way and emphasised certain parts of the subjects more than others, students taught by him may not saffer in the examination. And, gentlemen, would you believe me when I say, from actual personal experience, that our teachers instead of thanking the authorities for giving them this freedom and this scope for individuality. do blame them for these very things and ear that the syllabuses are vague and indefinite and they are left in the dark as to what to omit and what not to omit in the several subjects. In short, they cry "Take away from us this freedom and this scope for individuality; give us cut and dried definite syllabuses worked out in detail and if possible give us one book

where we can find all that we have to do" This, gentlemen, is a deplorable state of affairs and I have given you this little bit of my personal experience with the teachers not with a view to find fault with them, but for the purpose of appealing to you, young teachers, to devote some attention to the reformed methods when you are in this col lege and to go forth to the ranks of the teaching profession with a love and enthumasm for the reformed methods so that the introduction of those methods into our country may ere long become an accomplished fact The present set of teachers were hitherto unduly influenced by examinations and were working in dread of them, their aim being chiefly to make their students pass those examinations and they were also accustomed to follow too closely certain prescribed textbooks But now the rigour of the examination is removed, and instead of text books you have general outlines of syllabuses and the teachers instead of feeling themselves more free and happy, want to be confined to prescribed text books and enveloped in detailed syllabuses It looks just like a man who. baving spent a pretty long life in confine ment, feels unhappy when released and wishes to be sent back to his prison Fortunately you, my young friends, will be beginning your work as teachers under very favourable conditions You are to be trained here under specialists for the teaching of your apprect and when you enter life as teachers, you are allowed a great deal of freedom in the detailed development of the reformed methods Only you must guard yourselves against extremes For that you must place your experiences before your brother teachers, compare notes and exchange ideas with them Also you must be constantly looking

into the modern up to-date books and reading the current literature on the subject as found in the journals and magazines of an elementary character. And then there can be no dooth that you will all be successful teachers. Your boys will have no reason to hate the subject of Mithematics as did the boys of old. The knowledge of Mathematics they get will no longer be bookind. The average boy will be able to apply his Mathematics to problems that may arise in his professional work and the gritted one will have had a good grounding for him to deredop into a great mathematician.

THE SIMPLIFIED SPELING

For I sem is the grantest Inovator and if Teem, ov cors audier Things to the wors and Wisdum and Counsel shall not audier them in the beter whot shall be the end?"

THE Editor ov the Pioneer, the organ ov the Simplified Speling Sosieti, revyning the word ov the passt year riets in the Desember number thus - 'We ar satisfied becauz we are begining to see regults. The nedea ov speling reform haz been brant to the noetis ov thoez interested in the English langwil in a was which haz commanded their proest atenshop Among those he hav joind us ar men and wimen in the frunt ranc ov our nashonal lief The list ov memberz. which wil shortly be sayed, will be welcomed az convinsing evidens ov the wat in which our caux apeelz not cenls to the edyncasshoust, but to the scolar, the signist, the biznes man-indeed, to inteligent men and wimen in everi cauling "

This iz indeed very welcom nyuz. The ware ov the South Indian Branch has, in

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meni respects, been ecowali encorajing. The hed or the Branch, it is well to remember, is not an adjunctationist, but a brillant financer, cleer-ied and ful oventhunzierm for the caux. The subject or Speing reform bas been cept prominectil before the public thru the meedium ov the presand bi meeuz ov lectjurs and discussions. The membership has tedilitinereed, Aud whot is moest important ov aul, Iudian scoulmassterz hu ar actjuali engetjid in the teching or English, have wolcomd the muurment with grait ergernes.

The nyn yeer is theirfor fal or promis for the cauz or rashonal speling. Much urnest and sustaind efort wil be neseari, or coers, before the wolz or ignorans and prejocals ar flensil brocen down. But the note judated and enthymiasm or those hu ar leeding the stac, and the stedi accessions to the armi or reform give grounds for much hoep.

I feel convined that the rashonaliesing or English speling wood be or incalcyulably benifit to India, becaue it wood graitil Lasilitait the spred or English in this land. The progres or English has been extremnil alooin the past. For, thins for wan moment.

Aster neerit a centrari or English edgracishon, out or the 300 milions or peeple in this centri, not more than I I milions ar litered in English I. At that rait or proogree, it will take full at thousand green for heat the present popyralishon to be sibl to reed and riet English I. And yet it is undesiable that never sum-baied Indian feeld needed the fertilizing ratios or the measure more than we need a molej or the English tong.

. The English languif has plaid and in dostind yet to plai a moest important part in the renaisans or modern ladis. It is the moest powerful foers whereing among us at the prezent dai for soeshal and nashonal yamiti. It is the kee which not centifully a subject of the property of the property of the West. The streem or world cultyur floes to us mainly that the chasel or that langwij. It stands, in a word, for proegres and enlietement. Hon needful is it then that a nolej or English shood spred, and spred cwicht in our land I Wun or the things that will moest sertent help to do that it the simplification or English speling.

The tiem waisted in lenning the curent speling is simpli apoling. It is notcering that Indian bois even after all to ten years ov the sindi ov English in the Seconderi scouls ar not aiblitu sperk and riet English currectii.

This is larjli dyn to the fact that a graitli dispropoershouet amount ov thair tiem is spent to mastering a calotic and irashonal speling. Shood we not saiv them from this cruel tiranj or the leter which ciloth?

A rashonal 'speling wood enabl Indian styndents tu lern tu yoz English corectli much amoner than thai do at prezent. It wood graitli improuv thair promusishon or English. It wood lastift, bi making the langwij erzeer to lern, leed tu the rapid spred or English in this contri. I can conserve or no more tradil patriotic wore which as Indian cood do, than the belping forwerd or this grait mouvement for the simplification or English speling.

S. E. Republican.

ENGLISH LITERATURE IN INDIA.

The introduction of Facish literature into India is among the most striking conscouences of her contact with the civilisation of the West Its influence on the national consciousness has been profound and it has generated the impulses for progress which have shaped the course of Indian history during the last one century The people of the land have opened their eves to political ideals, lofty in their soirit and abundant in their capacity for advancement, the structure of Indian society has been subjected to the search light of a new reason full of humanity, and the injuries of ages are being righted, the supersti tions beliefs of the past no longer command reverence from at least those who have any pretensions to culture, efforts for increasing the material prosperity of the country are being made in all directions, -there has been in short a general awakening, which can be compared in its intensity and comprehensiveness only to the great Renaissance of Europe

While these beneficent consequences of its introduction into this country have often met with adequate recognition, it has very rarely been considered as a literary movement in itself Though those aspects must be of the most absorbing interest to all that have the national welfare at heart, to a student of litera ture, the latter standooint must make a profound appeal The consequences in the literary sphere. of India's gradual absorption of English litera ture, the achievements of at least appreciable ability within the country itself, by the Anglo Indian and the Indian, its usefulness for the Indian genius as a possible means of expression, -such are some of the subjects that ought to suggest themselves to one when some considers. tion is bestowed on Luglish literature in India

*A paper read recently at the Teachers Association Teachers College Saidapet by Mr I Seshadri M & of the Pachsiyappa & College.

When the energy that is being spent apon the study of Faglish literature by the children of this country is realised, it will be seen that the pursuit of a subject on such a large scale must cease to be simless, and most proceed in the direction of a clearly marked out goal There is everywhere a wider and wider recognition of its value and perfulness for the people of this country The Universities have given a very large share of attention to it in their scheme of studies and it only seems to increase year after year in importance. The sons of the intellectual aristocracy of this land are fed on its priceless beauties and the future reveals for it only a wider field of activity. With his characteristic genius for adaptation the Indian has assimilated it in a wonderful manner. He is able not only to explain the abstrace verse of Browning and appreciate the subtlety of its philosophy but also to perceive the same depth and beauty in the intellectual systems of his own ancestors The writing of Ruskin have familiarised him, 16 is true, with the beauties of Alpine scenery, ravishing pieces of Swiss landscape and the great architectoral monuments of Italy But he has at the same time realised the occasion for such writing in the beauty of the 'supreme Himalave in suncise,' in the Indian dawn breaking over the Orient sea scattered with isles of palm. in the dream in marble at Agra, in the rock cut cares of Western India and in the eacted shrines of the South Wordsworth's applause of the deffedil and the hily has inspired his mind with a similar deep-seated worship of the lotus and the champak. Shelley's Oils to the Skulark has been read to little purpose if the 'little, little koil' singing on the Sirish bough does not inspire a similar train of golden faucies. The ballads of Scott have been made use of by the Indian, for does not his heart throb listening to the tramp of Mahratta horse at Raigarh, or the dashing array of restive Rajput steeds before the gates of Chitor!

The Iodian mind has naturally not stopped with the owtheir perception of literary metits in the masterpieces of the English Ingospe; or even with the application of such a process to things in the atmosphere of India that may be enggested by such a stody. It has also occasionally strives to frame its conceptions of the baselfiel in the language with a success which has been exciting the admiration of some of the most scruppiloss of English critics. It is not morely that the Indian is successful as an English oratio on the platform; he has begue to show his capacity in the serious forms of literary activity.

II. Before discussing the principles involved in the question of the capacity of the Indians for achieving success in English literature, it is necessary to make a reference to the large part the language is bound to play in the future history of India. If only the subject is approached in a sober, academical spirit without one being led away by impulses of patriotism, one is bound to confess. that in time to come, its influence will be more potent in the country than that of all Indian languages. Though it is too early to point to it as the language of the Indian millions of the pear future, those who conjuse up before their mind's vision a common language for India, have to take note of it with as much certainty and confidence as other languages which are spoken. at best by a few districts or parts of a Presidency. The attention the language has been receiving in the country; its importance, nay, almost imperative necessity for India's taking any appreciable share in the progress of the modern world; the peculiar political circumstances which invest it with dignity and attraction for the Indian; its favoured position as the common medium of expression of the most advanced Indian class even to-day-all seem to boint to a consummation in which English will be the language of the land for all practical purposes. A student of history sees that it is the only possible conclusion. Whether it is desirable or not, is a matter which the tide of events will not name to consider.

And after all, there onebt to be no occasion for regretting it in the interests of national progress. In one of several kind letters I had the privilege of receiving from the eminent English writer, Mr. Frederio Harrison, he writes: 'I am one of those who regret that in colleges in Indian Universities, so much attention is given to the study of English literature and to acquire the piceties of English prose style. It can be acquired -- but it is alien to the entire body of Indian thought and life in which the Indian scholar's whole existence is necessarily passed." There can be no denying the loftiness of the spirit that has prompted the noble-hearted positivist philosopher to give expression to these sentiments. - But it must be seen that the political condition of India and the current of historical forces render the present course not only inevitable, but also eminently desirable. The sustenance for the spirit of modern progress must come from the literature of the West, with its ideals of energy and action and its interest in social and political organisations and not from the literature of the Indian languages. with their insistence on the immateriality of this world and their philosophy of spiritual repunciation. Even as a step of practical expediency it is difficult to see any better method of deciding their rival claims than the introduction of a new language which can already be regarded as a common medium of expression in the country. The stress of modern civilisation will not allow the possibility of cultivating a bondred languages. each with its limited large of adherents, within the same country. If it did, it would be the toleration of one of the most frightful instances of the waste of human energy, certainly inconsistent with the spirit of modern progress. There should be hesitation for the sacrifice of sentiment in the interests of the country's progress and it is good to remember it is for the adoption of a language which links Indian with the civilization of the most advanced part of the modern world, which is full of life giving ideals for the progress of the individual, the society and the State, contributing to material happiness and growth, which asks for no artificial aids as it is impelled by the tide of histori cal and political forces, and which has to its credit an ever growing literature, whose influence touches to day the farthest confines of the world It is a mistake to imagine that it will lead to any loss of national integrity or distinction The example of the United States of America where different nationalities have adopted the English language and yet form the units of a single political organisation, quite distinct in its spirit, must serve to remove the misconception. Far from its leading to any such decay or obscuration, it seems to be the only means of creating a national sense in this country and leading her into the highways of progress As for its being an exotic element it can only be said that the Indian genius will soon make it its own, and by applying it to the Indian atmosphere will make it thoroughly local in colour and national in spirit

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Ignorance, prejudice and pessimism have often raised the croaking voice, that it is not possible for the Indian to wield this alien medium of expression with any success. Where it is mere expression of bigotry and parrow prejudice it hardly deserves any respectful attention. Where a personal weakness in the subject prompts such a belief it is a sight for the exercise of pathos The voice of pessimism deserves only a severe It is, however. silence and an amused contempt worth while examining the honest arguments which are sometimes advanced The critics fail to perceive that the advantage of English birth gives the literary aspirant a start only in dia-

lectic vividness bomely flow of conversation, and richness of native humour. It is forgotten that these do not constitute the only virtues of literary and artistic excellence, nor do they occupy any appreciable importance in some of the most cherished branches of literary craftsman ship The slavg of Sam Weller, the speech of Tennyson's Northern Farmer, the humorous doggerel of Barham, and the homely excellence of Mrs Poyser's exquisite sayings are it is true. beyond the reach of the Indian, but is it not possible to evolve a transformed literature of his own even in these directions to suit the peculiar circumstances of his country?

How do Engl sh birth and environment invest a person with a finer capacity for lyrical poetry. for heroic verse and the loftier fields of prose? What are the specially Eoglish elements in Shelley's lines

" Life like a dome of many coloured glass. Stains the white rad auce of eternity ?"

or Kest's

"Then felt I l ke some watcher of the skies. When a new planet swims into his ken " or Wordsworth's

'To me the meanest flower that blows can give Thoughts that do often he too deep for tears."

The difficulty of the Indian in imitating effectively the English accent which has been however rendered largely possible by recent Phonological aids is sometimes but forward But it is forgotten that Philology knows no correct pronunciation, its standard being derived only from the most widely accepted form of speech. The Yankee feels himself at liberty to introduce his own eccentricities into the English tongue The Scotchman has been persisting in his own variations for the last several centuries. The propagation of English has been developing neculiarities even in so recent a colony as Australia, and the inhabitants of a far off island cannot effectively and for ever prevent the Indian mind from exercising one of the acknowledged privileges of people being an instrument

of expression. The introduction of national eccentricities in pronunciation is again the addition of an element of picturesquamess which is probably not without its own value.

The difficulties of acquiring mastery over the language which is being gradually shoreded by this rest continent have been exaggerated. Without entering into a discussion of all the questions raised by this problem it may be ventured that creative genies, when it has a real impelling force behind it, will shape the available literary medium in a manner existed to its conditions. This is but one of the most widely recognised traths of an artistic work.

If an historical parallel were necessary, the example of the Spanisrds in the days of Roman occupation may be gited, though the parallel is not absolute. There was the sight of men like Senera, Mela and Onintilian, Scaniards by birth. distinguishing themselves as Latin dramatists, critics and poets. Is it wrong to expect with reference to India that a similar phenomenon will display itself in the republic of English letters? There are, it is true, barriers of race, religion and civilization, but such circumstances have never been known to stiffe creative genice effectively. The literature that is to come into existence, it is necessary to remember, is to interpret the Indian spirit and civilization and not to work in an exotic setting.

There is no use of degring literary genies to a great nation which has enriched the world's literature with some of its most cherished moumonts of art. There is abondance of material for artistic treatments in lodis, in its superb natival beacties, inits marvellous history and legend, inits sublime religion and philosophy, not to speak of its multitudiones sociological problems assuming shapes and features unknown to all the past ages of the world.

There is a circumstance peculiar to India which leads real advantage to the possible developments of English literature in the country. Without any attempt at belitting the personal

poetic interest of Britain at least for berown children it may be ventured that their muse must soon seek material in parts of the British Empire which still have an air of romance for them. The pnexplored colonies, and India with its baffling mysteries for the foreigner, must serve as 'fresh woods and pastures new' for the English nost of this century. Several sources of poetic inspiration for the Britisher have dried up during the last four or five centuries. The world of Greek and Latin literatore will not hear further exploitation: the mine of Italian literature has been worked by successive generation of poets from Chancer and Spenser down to Rossetti and Swinburns; France vielded up all her treasures in the eighteenth century; a sufficiently severe strain has been imposed on Germany and the North and the Englishman can no longer turn in these directions for themes of poetic interest. If there may be some indulgence in the spirit of prophecy in such matters, it can be pointed out that some of the richest treasures of English literature in the twentieth century are likely to be associated with the aspects of life and scenery in parts of Greater Britain, and India as the representative of a civilisation much more ancient and mys. terious than that of the colonies will claim a large share of such attention. The pilgrimage of the coming Childs Harold will include India within its range; a later Browning will long to spend his days in the beautiful valley of Cashmers or on the snow-clad heights of the Himalaysa; there will be posms by Englishmen idealising the experiences of a journey in India on the model of Wordsworth's Memorials of a Tour in Scotland or France; it may even be that the love-romance of the Shelley of the next generation will be with the dark-eyed girl of an Indian sensus, expressing itself in a new Epipsychidion. Almost all sepects of the country are likely to appear transformed in a halo of postic glory at the hands of English posts.

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Nothing but strong encouragement is afforded by a consideration of what has already been done by Anglo-Indian and Indian in this work of the poetic treatment of lodis. Even before the begin ning of the nineteenth century Sir William Jones had applied his vigorous penius to the assimilation of the literature, philosophy and rel gions of India and succeeded most remarkably in treating about them in his poetry. A few years later, a Scotchman, brought up amidst the romantic scenery of the Teviot, John Levden. a friend of Sic Walter Scott's and a contributor to Scotch Ministrelsy, found his way into Southern India and sang of Indian subjects in lines of real poetic beauty A pious missionary working in this land, Bishop Heber, invoked his muse to turn to things around him in India, on at least two important occasions. Sir Edwin Arnold wrote of Buddha and the philosophy of the Unanushads, with the instinctive symnathy of a person cradled from childhood in the heart of the Indian nation Liawrence Hone sang of Indian Love and the Garden of Kama with a burning lyric intensity of soul Numerous aspects of life to India pass before Rudyard Kipling in kaleidoscopic view and even the pressure scenes of Anglo-Indian life furnish him with material for poetry.

How much more easy should it be for the Indian, in cases to which be is grifted with resil creative genica, is imbeed with Western culture and has acquired a mastery over the English language, to interpret his country and civil axion in the garb of the Faglish mass than activation in the garb of the Faglish masses that activation in the garb of the Faglish masses of the activation and the strength of the factor of the factor is a such as acknowledged authority in English criticism as Edmund Gosse that has declared that English literature must devote a page to that exotic blossom of cong the Indian poeters, Tora Dait, authorisa of the Actival Ballath and Legislated Histories where here homographs.

other matances, Michael Madhundan Datt of Bengal with his Byronic muss, this latt Mr R O Datt who applied himself with success to the very difficult task of translation in verse; and to day, Professor Othese of Clastical who collaborated even while at college, with Stephen Phillips and Lucrence Bingros, and his girtled brother who is probably more well known as the leader of a political movement to India, not to speak of one much nearer us, Mrs. Sarupin, the lyrin sweetness of whose verse deserves the highest commendation.

The poetic interpretation of India, its life and civilisation could be most effectively discharged only by the Indian as he is the son of the land-he lives, moves, and has his being in her-unlike the fore oner for whom she is only a temporary home. The Angle Indian next praises the scenery and life of the land with material reservations. He always longs for the surroundings of his own foreign home, in obedience to a very landable matinot of natriotism The feeling of an exile comes unom him even when he is praising a beautiful landscape of this country The cesseless speech of the little. little koil, singing on the Sirish bough is to Budyard Kipling only the tolling of the Knell of Exile and he could only exclaim

I am sick of endless southline, sick of blossom bar deved bough,
G we me back the leafless woodlands, where the whold of spileg time range
G we me back one day in England for 'its spring in England now.

He could only put this question to the Indian

Can you tell me aught of England or, of spring in England now

Years of stay in this country and lofty service in the cause of her people did not, naturally, after the station for Bishop Heber Describing An Eccusy Walk in Bengal on the Garges, he is forced to confess that English fairies nears trol so rich a shade, so green a sod. But he is not able to suppress the longing for England's 'good greenwood' for her 'bawthorn glades' and a mere sight of her cake again.

The work therefore devolves upon the ladian. and from what has been said already, it will be seen that the situation is hopeful. Lord Curson, not a great admirer of Indian virtues of head or heart, in a speech before the Society of Authors in England, ventured to prophesy that in course of time a society of English authors of Indus birth may meet at the capital of British India. If there is the possibility of literary prognostication with any success, it may be said that there will spring up a class of Indo-English literary men in the future who will do for the artistic interpretation of India what Longfellow, Lowell, and Walt Whitman have done for America. As in the days of the Roman Empire, a class of poets from the .ubject race shall rise to share the literary glories of the rolers. One is disposed to linger fondly on the vision of such a future, to see a race of Indian literary men glorifying their motherland in the English tongue-to see a Tennyson singing the deeds of King Vikram : a Browning elucidating the philosophy of a cross-legged Brahmin ascetic on the Ganges, or a Bhikshu in Buddha-Gaya : a Keats clasping with rapturous enthusiasm the angels of the Hindu pautheon; a Dickens delineating the scenes of Madras in a new series of Sketches by Boz ; a Scott narrating the thrilling romance of the land of Rajasthan; we may go further-a Milton treating in spic poetry a lofty theme from Hinds mythology, and if it please God, an Indian Shakespeare writing on the Merchant of Surat in the clutches of a Gozzrati Shylock, depicting idylbe life in an Indian forest of Arden, or moving us to tears with the tracedy of a Hindu Othello or Hamlet. The Indian has entered upon the field of English literature with the right of an adopted brother, with 'Shakespeare's children and Milton's kindred.' A beginning has been made, which by a long series of steps will result on the day when the sons of

India will glorify, in English poetry,

Whose air is balm; whose ocean spreads
Over coral rocks and Amber beds;
Whose monthains pregnant by the beam
Of the warm sow with dismonds teem
Whose rivulets are like rich brides;
Lorely with gold beneath their tides;
Whose sendel groves and bowers of spice
Whose stands! groves and bowers of spice

V. ON THE TEACHING OF MATHEMATICS IN SECONDARY SCHOOLS.*

(Continued from page 410, Vol. XVIII.)

In this article, I shall deal with (i) some important algebraic processes applied to numbers; (ii) the decimalization of money, English and Indian.

From the examples worked out below it is not meant that algebraic formulae can always be applied with advantage in arthmetical calculations, nor is a student advised to stop in his calculations and thick how he can make use of a particular algebraic formula. This will be just like a student keeping a set of phrases and idioms to be used in his commention.

- i. a²-b²\(\overline{a}\)(a-b), Evaluate \$7.75²-322.5⁴, 37.75²-32.25²=70×5·5=385. Multiply 11.75 by 9.25.
- $11.75 \times 9 \ 25 = (10 \ 5 + 1.25) \ (10.5 1.25)$ = $10 \ 5^2 - 1.25^2$
 - $= 25(2\cdot1^{2}-\cdot25^{4})$ = $25(4\cdot41-\cdot0625)$
 - == 25×3·3475 == 83·6875.
- ii. a³+b³≡} { (a+b)⁶+(a−b)⁵ } . Ecaloate 11:625*+9:375*. 11:625*+9:375* = 1(21*+2:25*)
 - = 1(441+2-5×2+-0625)
 - = 1 × 146 0625 = 223 03125
- * The right of publishing these articles is reserved

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id ab≥} {(a+b)2-(a-b)3 }
                                                    Ecalnate
                                                    $760$ + $750$ + $740$ -- $ x $760 x $750 x $740.
Multiply 11 525 by 9 375.
                                                    3/80*+975(#+3740*--3 x 9760 x 9750 x 9740
 11 625 x 9 375 = 1 1 213-2 253 3
                                                    = 10*f376*+375*+374*-3×276 x 375×3741
               = 11441-5-06251
                                                    = 103 ×1125(13+15+23)
               = 1×435 9375
               = 108 931375.
Evaluate 11 763 + 9 253
                                                    = 10^4 \times 1125 \times 3
                                                    = $375000
11 752 + 9 258 = (10 5+1 25,8+(10 5-1 25)8
                                                    VII. (a+b+c)4-(b+c-a)4-(c+a-b)4-(a+b-c,4
               - 9/10 51-11-251
                                                                    = 24070
               = 80(2 19 + 253)
               - 50 × 414725
                                                    Evaluate 5 25 x 3 5 x 1 75.
               - 993 B25
                                                    5.95×3.5×1.75
iv a -b1=(a-b)(a1+ab+b1) or
                                                    = - 1 10 50 -0-3 58-78 8
            (a-b) + 3ab a-b) ne
                                                    = 1-127×35*-35*-8×35* }
            (a-b)(a+b^2-ab)
                                                    = 4×35*
Evaluate 25:253-14 755
                                                    = 4 F27 125+4 5×3 57
25 25*-14'75*=10 5*+3×25 25×14 75×10 5
                                                    - 4 × 49 875
= 1000 125+157 5+3×10 5 (400 - 5×51*-- 0625)
                                                   _ 128 625
         [*5 25*=5*+2×5× 25+ 25*
                =5×554-2537
                                                    - 32 15625
= 1157 625+3×10-5 (400-27 5625)
                                                   Now W3 - X3 - Y2 - Z2 = 24abs where
= 1157 625+3×10 5×372 4375
                                                                 a+b+c=W
== 1157 625±
                                                               -a+b+a=X
 11173 195.L
                                                                 a-0+c=Y
    E59 65625
                                                             and a + b - c = 2
= 12889 40625.
                                                   Evaluate 188 - 258 - 558 - 108
                                                     181 - 2 55 - 5 50 - 100 = 24abc where
25-255--14-251
                                                                                a + b + c = 18
= 10.5 (40^2 - 20 + 5.25 \times 20 - 5.25)
                                                                                 -a+b+c=25
= 10 5 (1600-100+5×55+0623)
                                                       - 91 v 775 v 695 v 4
                                                                                         a = 7.75
= 10 5 x 1227 5625.
                                                               = 6 × 31 × 25
                                                                                a-b+=55
= 12275 625 ±
                                                                = 4650
                                                                                         b = 9.25
    613 78125
                                                                                 a+b-c=10
                                                                                         4 = 4
= 12889 40625
V a3+b3=(a+b)(a3-ab+b3) or
                                                   17 Resolve at - 1 into factors and bince deduce
         =(a+b)0-3ab (a+b)
                                                 the prime factors of 999 999
Evaluate 15 620 44 3758
                                                   a4-1=(a4-1)(a4+a2+1)
15 6250 +4 3751
                                                        =(a-1)(a+1)(a^2+a+1)(a^3-a+1)
= 202-60 (10+5625)/10-5625)
                                                     ppt a=10
= 8000-6000+60 1 5×625+ 625* [
                                                   then 999999 = 9×11×111×91
= 2000 + 1875 + 60 \times 36
                                                                = 3^{\circ} \times 11 \times 3 \times 37 \times 7 \times 13
                    30
                                                               = 58 \times 7 \times 11 \times 13 \times 37
                                                   A number can be looked upon as a function of 10
                       25
                                                 and putting a for 10 we get a function of a to repre-
= 3875+6×390625
3875
```

23 4375

VI a1+61+c2-3a1e=1(a+6+e) 1(a-6)2

+(6-0)2+(4-42)

= 8899 4375

XIX

and putting x for 10 we get a function of x to represent a number, the digits forming the anumber being the coefficients of different powers of x. Thus x² + 4x³ + 5x³ + 2x + 3 stands for the number 145 7, 3x² + 5x³ + 7 stands for 2507.

Evaluate 1111,

```
Now (1+e+e^{e}+e^{2})^{2} = \{(1+e)(1+e^{2})\}^{2}
= (1+3e+3e^{2}+e^{2}) \times (1+3e^{2}+3e^{4}+e^{4}) \times (1+3e^{2}+3e^{4}+e^{4})
```

1+3+3+ 1 1+0+3+ 0+ 3+ 0+ 1 1+3+3+ 1 3+ 9+ 9+ 3 3+ 9+ 9+3

1+3+3+1 1+3+6+10+12+12+10+6+3+1 Remembering that a = 10 we arrange the co-

efficients thus: 1+3+5+0+3+3+1+7+3+1 and the corresponding number is 1371830631. The application of the Remainder Theorem

in this connection is instructive. Now if an integral function of z is divided by &- 1, the remainder is found by putting m=1 in the function, i.e., the remainder = the sum of the co-efficients, i.s., the sum of the digits in a number : by our assumption z-1 = 9. So this gives that when a number is divided by 9 the remainder is the sum of the digits and if the sum of the digits be a multiple of 9 the number is divisible by 9. Again if an integral function of x is divided by x + 1 the remainder is found by putting -1 for x and the result is the sum of the odd co-efficients - the sum of the even coefficients. So when a number is divided by 11 the remainder is the difference between the sum of the odd digits and the sum of the even digits and if this difference he zero or a multiple of 11 the number is divisible by 11. The Remainder Theorem gives that $8x^{2} - 5x^{2} + 10x^{2} - 11x^{2} + 2x + 1$ is divisible by x-1 and we infer that 310021-5110. i.e. 304911 is divisible by 9, which is otherwise obvious and bence verifies the Remainder

An algebraic expression $5x^4 + 8x^4 + 6x^4 + 8x^4 + 9x^4 + x^5 + 4$ can be put into the form $5x^5 + (3x + 6)x^5 + (8x + 9)x^5 + x^5 + 4$, and the remainder when this is divided by $x^5 - 1$, is easily seen to be 5 + (3x + 6) + (8x + 9)

Theorem.

+1+4. Now from this it is clear that when a number is divided by 99 the remainder is the sam of the numbers formed by taking the digits 2 by 2 from the units digit and when this sam is greater than 99, 90 or a multiple of 99 should be subtracted from the sum and the remainder obtained; and this suggests an easy method of obtaining the quotient and the remainder when a number is divided by 99.

Let us take the number represented by the algebraic expression in the previous paragraph and divide it by 99.



* From the rule we get 135 for the remainder and 100 carried forward will give I to be added to the quotient and I added to the remainder.

The co-efficient is 5423132 and the re-

Quotient: 537427.

DECIMALIZATION OF MONEY,

Before beginning decimalization the student should be made to grasp well the elementary ideas about decimals. In a decimal fraction that a unit in the 3rd place is 10 times a unit in the 4th place and so on; this applies to fractions also, eg, when a fraction belonging to the 3rd place is multiplied by 10, the integral portion belongs to the 4th place—for example $037l_1^2 = 0370l_2^2 = 0370l_1^2$ and so on The stadent should also be very familiar with the decimal equivalents of at least i and its odd multiples. With this notation i and 04i are intelligible and the student must at

once understand them to be 05 and 04875

Now a shilling is '4 of a £ and 5s, 2s 6d,
11s 9d are respectively 24 £, '14 £, 5 £ £ and
are equal to £25, £175 and £5875 respectively. Now the student can decimalize
shillings and pence to within 3d.

$$\begin{split} & \mathbf{1q} = \pounds \, \frac{1}{960} = \pounds \, \frac{025}{24} = \pounds \, 001_{\frac{1}{4}\pi} \\ \text{and } \mathbf{eq} = \pounds \, 00a \, \frac{a}{24} \\ & \text{Now } \, 2 \underline{1}d \, = \pounds \, 010 \underline{1} \underline{2} = \pounds \, 010416 \end{split}$$

=£01197 Decimalize £35, 17, 1072d

244 = £0111 111 = £0115

£35 8875

005; 53 5555 23

The student should always reduce each fractions $\frac{5}{2^{\frac{1}{4}}}$ mentally. The process of reduction should be $\frac{1}{4^{\frac{1}{4}}}$, $\frac{1}{4^{\frac{1}{4}}}$, $\frac{2}{4^{\frac{1}{4}}}$, $\frac{2}{4^{\frac{1}{4}}}$, $\frac{2}{4^{\frac{1}{4}}}$, $\frac{2}{4^{\frac{1}{4}}}$, and

so on.
(To be continued)

S CHINNASAMI AITER

SCHOOL-MANAGEMENT AND HEADMASTER'S WORK.

I.

MATTERS of method and technical details of school-work ought to receive their special attention at the bands of professional But, those facts and principles necessary for guiding the policy of a school or even an educational institution of a superior order ought to be the common property. of the educated public When the Ripon-Hunter Commission collected evidence, it was the late Justice Telang who emphasised the view that intelligent men of general education conversant with broad principles could very well take part in University discussions and need not necessarily consist of professional experts alone The need for this arose from the manner in which the idea of education being directed by lay-men was altogether ridiculed. In this contention, the late K T. Telang was certainly in the right. Men in the field of education and outside elements should join so that there could be scope for variety and different types of culture

In University education, the lamentable feature is going from one extreme to another. Refore the recent changes now worked out, too large a number of lay-men took part in the Senate and the Syndicate The present tendency is to have too large a number of men engaged in the profession of teaching. The forces at work in the higher department of education naturally permeate the lower strata. A disproportionately large number of people has begun to say that, even in the management of schools, the vast majority should consist of teachers. Amongst teachers are met with men who may be thorough in details of instruction and those not wanting

who have really educational ideas. But, the latter class is not necessarily restricted to the masters Amongst outsiders are found men not only of superior attainments in subjects of study but also of broad educational ideas The services of these ought to be util sed for the good of schools The greatest pity is that they have not got the lessure for doing as good work as they can, especially as the majority of them belonging to the legal profearing are too busily occupied in their own professional work and in too many kinds of activity to make themselves felt Parely professional people may easily note that, in the public life of Great Britain and America. the legal element preponderates. The credit that Britain claims is that the proportion is less in it than in America and that a larger number of outsiders is found to take nort It seems to be a curse of the teaching profession even in Lurope that its members are not able to combine effectively for organ ised efforts in improving their own material condition

In all worldly matters power naturally goes into the hands of men who control the purse and take part in legislation Inschool matters also headmasters and assistants should show that they can give or get the necessary amounts needed for improving the efficiency of schools. while teaching up to a high stendard. The requires a great deal of self-sacrifice as in the case of the founders of the bergusson College, Poons, amongst whom the illus trions names of Messra Agarkar, Tilak and Gokhale are too well known to need more than a bare mention. They will have then all the power in their hands Till then, they may envy in vain the authority of outsiders in the management But, these have also equally to consider whether, not satisfied

with merely financial aspects of education, it is possible for them to take an intelligent, active interest in the educative portions of school work, otherwise, managers equally find themselves merely enried. It is not our business now to inquire into the relationship between two classes of men, but to see how educational interests suffer to the detriment of progress of the large number of school going youths in the land. Headmasters and satisfacts owns, therefore, show a greater knowledge of the world by coming into contact with business own and winning them over to contribute large sums.

Managers ought to be daily conversant with the educative aspects of school work. These can have their useful share thereof by co-operating with the headmaster. He is the responsible person through whom they can and have to exercise their influence on school work Now that the headmaster is made the supervisory authority without full class work, it is for them to see how it is exercised The headmaster ought not to be in charge of any subject fully for one class The subjects taught during those periods especially in the lower forms and primary school classes, suffer for want of occasional effective supervision He ought to bear the hon's abare of work in taking, only for a short time, each form or class in the most difficult subject or important portion of any subject known to him He is intended to be the teacher of model lessons capable of improving the assistants. The management may co operate with the headmaster in a way, by going with him round the classes from time to time and seeing what kind of improvement he effects on the assistant's work If this is done, the headmaster more profitably uses the ample leisure left to him.

His attention and time are better utilised in model teaching than in office work with its own importance. Then, his supervisory work is bound to meet with greater success. The headmaster ought to be able to calmly think for himself and decide what writing work is necessary and what he can conveniently manage by friendly contact with the teacher. The manager may, if necessary, advise him to avoid long or unpleasant reports submitted to him in writing as beginess people find it easier and more useful to have short reports on the needs of the zehool and to gain a better name for considerate manage ment by gouldness and eviments.

Every intell gent manager ought to see a school-calendar placed by the headmaster in the hands of every teacher and school boy, so as to show the text books and portions, dates of examinations and payments of fees, the holidays of the year, Pacharyappa's College, for example, issues one for the High School department also It is found very convenient by pupils and masters

The manager may accortain whether the headmaster holds teachers' meetings to make them profitable in work in imitation of the Japanese Parliament which conducts business without much talk. The manager may learn and directly see what is done with regard to games, as they help the formation of independence and obselence to suthority.

The problem of problems is to see what steps are taken to bring into force in actual life the methods of securing the intunate contact of the teacher with the parent, that of the teacher with the pupil being too well known in theory to need nestion

A committee of management ought to have a due share of the educational element represented in it. With it, the management is

bound to make its achievements more glorious But, the representatives of the teaching profession must be such as carefully work to give the benefit of their experience Supposing it to be actually found, the task of co operating with the headmaster is comparatively easy. only if it is intended to be done in right earnest. Supposing it is not found, an intelligent member on the board of management angult to be able to go with the headmester round the classes to test educative methods The manager may enter 10to a conversation with boys and see what they have got to say in matters of general interest and what intellicence they show in briefly answering questions requiring not mere cram but sound, common sonse. The headmaster will then he shie to convince his superior that he is the important factor in aducational matters, the sole nower for the diffusion of instruction on a large scale or even of knowledge on a small educative scale This method is useful in proving supervision to be necessary The ordinary public conception at present is that the head master ought to have far more of teaching work than he has undertaken to do People outside the profession and even in it can be satisfied if they see that far more is gained by efficient supervision than by teaching This requires culture which it is difficult to attain but, no reason can be assigned to the want of active work and interest with the attempt at culture that can be made out of the material available at present

Some useful work of the management consists in passing proceedings fit to guide intelligent hap-men of education ought to take heart and feel that, if they only will, they can have their useful share in improving the tone of school work

If the Universities' Commission had the object of securing continuity throughout the

College course, the Secondary School Leaving Certificate zebeme has for its object the proper supervision by the headmaster and the elevation of the teacher to a higher status. The headmaster and the manage ment may co operate to achieve it

For more than a quarter of a century, the greatest living educationist of Southern India. the Rev Dr Miller, set an example of teaching in the High School department of his well known premier college and of supervising work It is not everywhere that it can be done, but, the principle exemplified ought to be borne in mind though we may not have professional men of that eminence masters and managers producing results in public examinations by cramming and mechanical methods may not see much of use in it, but, to the parents and the public interested in culture, it is educative work that is worthy of imitation. The headmaster is expected to teach in an exemplary way and to be able to give constructive suggestions raising the etandard of an assistant's work.

If we have ventured to say all this, it is be cause we ongle to make it anderstood by the general public that a wast field of work hes open to the learned man even entside the pale of the teaching profession. In this case only does a supervisory headmaster prove that he satisfies intelligent, public opinion

If we have not entered into concrete details of meansgement, it is because they are largely determined by local conditions and details within the easy reach and knowledge of any learned man in earnest shout his work, Any such particulars are more properly topics for treatment in detail. We shall, if uccessary, utilise, later on, the pages of The Educational Review, our only organ for purely educational matters in this Presidency.

It is not hereby meant that the Secondary School staff especially of the upper forms need be subjected to interference of a threefold character from the headmaster, the management and inspectorate The teachers of the fourth, fifth and sixth forms are almost generally no inferiors to the headmaster and the only safe course for the head is to ascertain the methods that his assistants mean to follow and to secure their co operation, Equally the sound policy of the management as not to anterfere needlessly with the headmaster and his staff The London Times, the enlightened organ of British public opinion. made the coaracteristic remark a few months back that nothing ought to be done which makes pupils feel that the authority of the teacher is checked Equally true it is that the authority of the headmaster ought not to be lowered before his assistants, so long as he is kept to do responsible work

Both the management and the headmaster should co operate with the inspectorate and be definite about the policy of the school and its methods The very object of the Secondary School Leaving Certificate scheme is to allow scope for variety and differences in taste of various assistants. They have received training at the Teachers' College and are conversant with the latest and best methods of handling subjects The headmaster and the management should agree to help them to follow their own methods so long as they are intelligent and well-informed. They should further see that changes in the inspecting staff do not prevent steadiness in and continuity of school-work for some definite period. The view should always be to secure variety with tolerant supervision

C R. SRINIYABA RANGACHARY.

UNIVERSITY OF MADRAS

COTTOCATION ADDRESS *

At the Convocation of the University of Madras held on 21st November 1912, the following address was delivered by the Rev Allan F. Gardiner, MA, S F G, Principal and Warden of S P G College, Trichimopoly and Fellow of the the University

MR. CHANCELLOR LADIES AND GENTLEMEN

As I ree to address this Convocation in compliance with the request of the late Chancellor and in accordance with the regulations of the University, my thoughts revert to the last occasion on which this time honoured custom was observed.

There stood before us then one whom we shall hear no more though being dead he yet speaketh, His interesting survey of University education, past and present, his keen appreciation of the reforms but recently introduced into the University system of this Empire, and his sensitive consciousness of existing limitations are all still fresh to our memory, while his words of congratulation and coupsel to the graduates of the year will never be forgotten by those who heard them The Hon'ble Mr V. Koshnaswami Aiver was a man whom the King delighted to honour a graduate, a Fellow, and a Syndic, of whom this University was justly proud Unerring insight and unfailing sympathy characterized every action of his life, and his public career was distinguished throughout by a rare single mindedness of purpose inspired by a large-hearted patriotism

It is a difficult and responsible task for me to follow in the steps of so clear a thinker and so brilliant an orator, and to succeed all the other speakers of wide experience and impressive eloquence who have addressed this Convection yar by year. But I have the secret encouragement of knowing that my enthesissan for the cause of higher education in India at least is as boundless as theirs, and my affection for this land and Empire as deep as that of any of my predecessors in this bonourable office

In the sphere of University education in this country one outlanding feature arrests the attention of every interested observer. It is the transition of the University from the formal position of a parely examining body to the dignity of an institution which not only tests but teaches, and devotes herself to transing not only the intellect but also the character of her some and daughters.

Such a response bility was recognized and necepted by the University of Madres at an early period of her existence, and recent administrative measures have served only to facilitate and quicken her discharge of 11. So invaluable are the benefits which accross from such reform that now schemes for the promotion of Universities in India can only hope to gain acceptance in far as these intensible are atticulty observed.

The development has been marked in the first place by the gradual transformation of a number of lossely silinated institutions tota a compact group of constituent Colleges over which the University has assumed a position of responsbility and control by dictating measures for their more collictive organization and conduct, and by instituting a system of periodical inspection.

As the Head of not the least distinguished of those House I may be permitted to express the gratitude felt by all towards the great statesman who inaugurated that policy and towards those upon whom the duty of giving effect to it has devoted.

In pursuance of the policy indicated in the Indian Universities Act of 1004 the hostel system has been brought into prominence and an approximation has been made to the residential system of the older Universities of the West The advantages of wider social inferiousies and of a more vivid realization of corporate life among students have for cectures past found expression elsewhere in hospices and halfs. Six bondered and fifty years ago the used of such

[.] Reproduced from the University edition of the

bostels for University students was realized and aupplied at Oxford by Walter of Merion, who laid down regulations for their discipline under a warden, sob wardens, and monitors Proper pro vision was also soon made for healthy recreation as luxus piles in Aorio cause treecends corporis of sanitatis. That noble example of private bene ficence if followed in this Presidency and in the ally namy States would cooler as great honour upon the benevolent founders as on the favoored Colleges

It is in the development and extension of this hostel system on a sound basis that a solution will be found for one of the gravest and most pressing problems of modern education

While the University as a body thus assumed a still larger measure of responsibility for the education imported in her affinisted Colleges and thereby constituted herself vicariosally a teaching institution the gracious influence of His Majesty the Ring-Emperor and the generally of the Imperial Government have opened out new paths of eductrings.

In Europe in the Middle Ages teaching Universities and hostels preceded the formation of such teaching Colleges as were founded after the model created at Oxford by William of Wykebam in the fourteenth century, and the local guild of professors in the studium had long preceded the organization of the universities In modern Universities the function of preparing candidates for University degrees has devolved upon University Colleges, and the University in her andividual capacity has assumed a peculiar function distinct from that of a University College, In the latter the acquiention of knowledge, however highly specialized it may be, is but one factor in the more liberal education of its scholars, while the University considered apart from her Colleges cares less for the wider culture est the destroidest and more for his statement at research and the essured results of his investigation To fu fil this special duty the University aims at guiding the studies of advanced students by the co operation tather than by the instruction of her own professors and by providing facilities for such research.

In the West, and elsewhere in India, generous endowment by religious and other institutions or the liberal support of public-spirited individuals as coabled Universities to discharge this distinctive function, but hitherto in this Presidency we have been precluded from doing so by a lack of general interest and of adequate funds. The imparial grant has now provided that University with materials for ereating monuments of research, and the University in a railing bereal guildy of the opportunity has proposed to appropriate the grant for the building and equipment of a library and for the stablishment of University professorships

Such a recognition of the special aim of the University, in conjunction with the better falshment of her wider purpose through University Colleges, violentes the traditional claim of Universities to be perhaps the most important factors in national progress, and cannot hat evoke a laboral response from every sections of the commonity.

In harmony with His Imperial Majesty's express desire to conserve the ancient learning of this land, the claims of the languages and literatures of South India, native and naturalized, have received the foremost consideration by the University of Madras This lea field of loquiry which affords unique opportunities for local research and holds out promise of a degree Cot success which it would be difficult to attem eld where The claims of other departments of research to closer touch with the professional and industrial I fe of the community have been temporarily waived in deference to the prior claims of pure learning, but will assuredly be honoured worthily as time and circumstance permit

The preference this given to Oriental Languages is an inertable corollary of Lord Macsolay's famous Minute of 1835, in which it was decided once and for all that the Foglish imprange should be the medium for higher adors. tion in India The only languages seriously conaddered as possible alternatives at that time were Sanskrit and Arabic, the classical languages flourishing in the land. The latter was rejected because it was as foreign as English and less effective, while the claims of the former were adaptated on the ground that it had been deaf for two thousand years, doring which a large portion of its literature had been written alternative great indeed in matter, form, and spirit, but deficient in certain departments and not greater in any than the literature of England.

But although the local demand for learned research in the department of Oriental Languages is great (as the recent proposals of the University testify), yet the need for the popularization of useful knowledge through the vertaculars is even greater.

Though there never was (nor has been) any intention on the part of the British Government that English should be generally substituted for the vernaculars—even if such a policy were remotely practicable—yet the competition of the vernaculars could hardly be taken into account a dending npon the means of higher education. But their claim on the forther attention of Indian Universities has always been great and cannot be sgoored with impurity.

Language is the sole channel through which we communicate our knowledge and discoveries to others, and through which the knowledge and discoveries of others are communicated to us.*

If the principles of Western civilization and the discoverers of Western thought and science (which are of neiversal, not merely local, valid ity) are to permeate this land, it will not be through English or Sanishtr or Arabic. The shistinest of the vertacclars is an indispensable element in national enlighteneoust. For while on the one hand the function of English is to unit on one enlightened body those who participate directly in the learning of the West, on the other hand the intional assimilation of that more accurate information and wider culture can

be effected only by calling in the aid of the vernacolars. At present there appears to be a darger that the English language which is a bond of onion among the favoured few may become a harrier of separation between them and their less fortunate fellow-countrymen.

The farenation of European collure and education exerts so strong an influence—due partly to worthy, partly to unworthy motives—that there is a clear dissionation on the part of Curversity students to select optional courses of study in their own languages, though it would be difficult to determine how far the education of an Indian could be considered in any sense complete without an adequate acquaintance with one or other of the languages and literatures which have spring up in his native land or have become acclimatized to it.

To the inflaence of those literatures is largely dae all that is good and beautiful in Indian life and the preservation of such inflaence and of its sources should accompany the inflaence and of its sources should accompany the inflaence of clearating and impuring elements of Western colture. Otherwise there would appear to be a real tanger that by their education the sons and daughters of India may forfest the most precious portion of their glorous heritage.

The history of University education in India during the past half century is a record of rapid advancement along every line of national thought. and the Universities may claim to be the most fruitful source of apparation for intellectual. social, and ethical progress, but at present it cannot be denied that the English educated class have to a large extent failed to adjust their enlightenment to the needs of their fellowcountrymen. As an evidence of such failure there is a striking absence of individual effort. of originality, of atimulating thought and imagi nation on the one hand, and on the other among those not so educated a widespread suspicion and distrust of all rational reforms based upon the knowledge that is imparted by English education

Graduates of the year, at is my duty to-day to exhort you to conduct yourselves autably unto

^{*} George Campbell, Philosophy of Rhetoric

the position to which by the degrees conferred pon you you have attained. I congratulate you on having for the most part attained a standard of proficiency in the vernacular languages of South India, for the diffication of knowledge through those vernaculars is one of the foremost daties of graduates. There is an imperative need of translating and accommodating that knowledge to meat the needs of the masses, and unless this task of interpretaion is undertaken the moment of inspiration may be irretrievably lost.

There is much in the old vernacular literatures that exerts a reactionary influence and withholds the benefits of the new learning and culture from the country at large. The time is ripe for the repassence of those vernaculars as living forces with a renewed viscour and a wider range. While the system of education through the vernaculars is already considerable and is increasing with the rapid extension of elementary education, the present supply of sound modern literature and of instructive lectures in the verpaculars is scanty and soon exhausted. And yet the vernacular seems destined to remain the spoken and written language of the larger part of the educated community. The literates in English in this Presidency do not number one in every 150 of the population, and for every literate in English there are slaven literates in the vernaculars. The vital importance of female education and the almost incalculable infinence of the women of India in Indian tite have frequently been emphasized, but only 4.000 Hindu and Muhammadan womer, and 8,000 Christian Indian, out of a total population of over forty-one millions, can read and write in English. The very imperfect knowledge of most of these literates in English further discounts. their number, already insignificant in itself.

There is yet another influential section of the community to be considered in the application of such a test, for

the wealthy as yet hardly appreciate the value of a University education.

· Census of India, 1911, vol. zii, part i,

to their children.

Every graduate of the University becomes directly or indirectly, deliberately or involuntarily, a teacher of the people, and the extension and improvement of English education will serve only to alients the interest of the masses and to accontante their prejudices unless it appeals to their bearts and minds in a form that can be readily understood and apprecisted.

The vernaculars are in a malleable and plastic state, capable of receiving the impress of new ideas, and the national demand for their modification and enrichment is insistent.

If I seem to have digressed from the express subject of the Courocation Address it is a account of my firm conviction of the peramonal importance of the position which the veranculars should hold in the scheme of higher education for the average student.

It is my very pleasant task to congratulate you, gradates of the year, on the distinction which you have won. If my words of hearty congratulation and kindly admostition should strike some of you as trite and commonplace, I ask you to believe that they are more the less encere, and I invite you farther to accept their very familiarity as a proof of the unalterable affection and unchanging interest which the University ever takes in the highest welfary of her children.

To you, ladies and gentlemen who have graduated body, this is a memorable occasion, for graduation in any department of learning comes but once in a stodent's lifetime. It is an impressive ceramory, an impressive moment in your lives, and in your case at least the solemnity of your present experience will, I ventore to trast, invest my faltering words with a peculiar freelyness.

I stand before you at this moment when you are flushed with triumph, not to stimulate the pride of knowledge but to instill the humility of wisdom. The education which you have received, the courses which you have completed, at

the cost of great self denial on your own part and perhaps of still greater self denial on the part of your parents and relations, are to day crowned with a success which is bard earned and well-deserted.

This ecademic year marks the passing of the old courses of study, the advent of the new But as the last representatives of the old order you have nothing to regret Turn your eyes on the long roll of men of ability and distinction, living or dead, whose path to honour and fame was the same as that now trodden by you. If the coming age require men trained under a more highly specialized system, yet in this age of transition, as indeed in every age, men and women of wide culture, broad sympathies, and poble character, will ever find a field for the exercise of all their talents. With such examples behind you and around you, and with such a hope before you I can, and do, most cordially congratulate you on the position which you hold.

You stand at a parting of the ways of life to choose a career for which your education hither to has been a training Your courses of studies now honourably concluded have afforded you an admirable preparation for life as a whole, and in most cases have developed aptitudes which will be of invaluable service to you in your special avocations And let me assure you that it is a matter of gratification to the University that the distinctions now conferred upon you should improve your material prospects in life, for the foremost duty of every citizen is to earn an honest living in an honograble occupation. And though it is not an uncommon experience to hear the mercenary aspect of education decried, there is nothing in such criticism that need necessarily cause you even a momentary feeling of shame But your education will have failed in its pur pose if you regard this degree as its completion, or even as its highest reward. For the krow ledge which you acquire is always of greater value than any distinction or reward which it may achieve and your education in the University of Life will never be completed till your latest hour.

You have realized that in life and work the method of attainment is of greater important than the means, the faculty of observation mighier than the power of memory, and the appplication of knowledge far more valuable than its acquisition

It is my duty to remund you of the solemo obligations which you have taken here to-day. You have promised that you call in your daily life and conversation conduct gourseless as become members of the University, that to the ulmost of your opportunity and ability you call support and promote the cause of morality and sound learning, that as far as in you her you will uphold and advance social order and the well bung of your fellow men

I need not remind you that these are no merely formal promises, though made in accordance with a set fore, nor are they the less binding on each of you severally though ratified by all simultaneously. You have nudertaken a great responsibility, but if, as I cannot doubt, you have derived the full benefit of your training, you will be able and ready to discharge that responsibility with credit to yourselves—and to the University, for to-day the University has constituted you the guardians of her honour in the wider worth.

Higher education is to day on its trial, and its critics are many and relections. The system is padaged not on its academic or intrinsic merits, but on its actual products. And this is a fair criteron, for education is not a lifeless system but a living instrument.

What has been solemnly promised by you, ladies and gentlemen, upon whom professional degrees have been conferred, is morally hinding upon all who pursue honourable and useful call 1056, namely, to maintain their purity and reputation and meter to deviate from the straight path of their knowable exercise by making your knowledge subspection to unouthly subs

In his ideal state, the name of which has become a byword for impracticable schemes, Sir Thomas More sketched a practicable fulfilment of such promises :

"The Honigan," he wrote, 'consider it an avidence of true wisdom for a man to pursue his own advantage as far as the laws allow it, but they account it nicky to prefer public good to one's private concerns, and think it unjust for a man to seck for pleasure by enstehing another man's pleasure from him. On the contrary they think it a sign of a gentle and good soul for a man to dispense with his own advantage for the good of others and believe that by this means a good man finds as much pleasure one way as he parts with another: for as he may expect the like from others when he may come to need it, so, if that should fall him, yet the sense of a good action done, and the reflections which he makes on the love and gratitude of those whom he has so obliged, give the mind more pleasure than the body could have found in that from which it had restrained itself. They are also persuaded that GoD will make up the loss of those small pleasures with a vast and endless joy, of which religion easily convinces a good soul.'s

Whatever may be your occupation in life, be sure that your personal character will be reflected in your discharge of its duties, for it is impossible to adopt one moral standard for your public life and another for your private. The temptation to do so is one to which many and cumb though the moral standard of human life in all its varied activities is constant and immutable -industry, integrity, modesty, and benevolence.

The responsibility which you have assumed demands above all else that key-atone of virtue in man and woman-moral courage. It is the absence of moral courage that spells degradation and rain for individual and social life. As students you have acquired an aptitude to learn which will always lead you to seek and follow the guidance of all whose opinions are worthy of admiration and respect; but you have also attained a position in society which justifies and demands of you a stordy independence of thought. deliberate formation of accurate and impartial indement, conrage to act upon your measured aninians, contage to alter those aninians if necessary, courage to respect the moral courage of others, and courage to bear the consequences of your devotion to conscience and duty. This is ·*. , · Sir Thomas More, Utopia.

the border road. Facilis descensus Averno. It is fatally easy to bow the neck unquestioningly to the voke of public or communal opinion, to court the breath of nopular favour by a blind acquiescence in the prejudices and superstitions of the multitude, to echo and imitate the thoughts of others as slaves of convention, not as pioneers of freedom. This would be a betraval of the trust of individual privilege and prerogative, a stain on the honour of the man, a stain on the honour of the University.

As educated ladies and gentlemen it is your high calling to advance as the leaders of public opinion, as the appointed representatives of the eacred cause of progress, not only to preserve traditions that are good but also to create traditions that are better, always bearing in mind that nothing but indigenous enterprise and effort can change or modify the customs of the race.

Fine maxims and noble centiments excite a warm glow of feeling which is too often mistaken for the action to which they prompt, but character can be built up only by acting upon such feelings and using every opportunity for doing so. There is no more pitiable or pathetic spectacle than that of men and women actuated by noble motives indulging in a weak sentimentalism unredeemed by one manly act. Such an equivocal attitude towards life undermines not only public confidence but also personal character. A strong initiative and a determined perseverance are what is needed in every community of men to bridge the gulf that too often separates platform and practice.

In the task of upholding and advancing social order and the well-being of your fellow-men, it is inevitable that political considerations should arise. As students you have probably realized the danger and futility of immature minds attempting to grapple with the intricate and problems of statesmanship, graduation you have incurred in some measurs at least responsibility for leading or for mislead. ing others. No discontent can claim to be diving

usies at has a worthy and a practicable object in view, to be attained by honourable and straightforward meson, nor can say political criticism be worthy of the name if it be devoid of sound commonsense and appreciative sympathy for intelligent co operation is the key note of British Rule.

But the social and political influence of the discated classes is not comparable either in force or in opportunity with their moral influence in the land. It is not brilliancy of intellect that can best illementepersonal character or enlighten the nation but the splendour of moral courses and the radiance of purity.

Graduates of the year, in you is represented the flower of India's youth. See to it that in your generation you fulfil your natural destiny by bearing the fruit of India's glory.

ALLAHABAD UNIVERSITY. THE CONVOCATION ADDRESS

THE CHANCELLOR & ADDRESS

The following is the full text of His Honour Sir James Meston's speech as Chancellor of the Allahabad University at the last Convocation on Saturday —

Mr Vice Chancellor, Fellows and Graduates -Our Convocation to day is held on the 25th auniversary of the incorporation of the University of Allahabad Our Act or Charter passed into law in September 1887, and on November 16th in the same year the University came into exist ence as a corporate body, with that distinguished administrator and scholar, Sir Alfred Lyall as its first Chancellor We meet then on an anspicious day, with a quarter of a century of history behind us Brief indeed is that period beside the venerable antiquity of the great Universities of the West But for the wide reaching provinces in which this University has raised the torch of learning, it has been a period of progress in which our Alma Mater has played no small or ignoble part. Into the public

services, into the learned professions into the world of trade and industry, she has now been sending her sons for a generation, and she may well be proud of their record. Much lies before her in the near fature. New lines of thought and new social theories will force themselves across her traditions. New fields of teaching will have to be surveyed and entered upon The intellectual basis for new claims of personal right and new ideals in politics and morality will have to be searched and tried. The harden of these chapges will press upon us all, but it will rest in a special mapper upon the University and on those whom it sends out to influence the vones All your wisdom will be required all your patience all your patriotism, if the result is to be good and not evil The task is no light one, but your experience of the past 25 years may mappire you with the hope of success You have worked with those who have the good of Ind a at heart, you have rooted the University in the confidence of the people, you have assisted and cooperated with the Government of the country If these continue to be your principles. a brilliant fature lies before you

During the last academic year the University has shown all the vigour of its comparative wouth It has affiliated a number of important colleges in additional subjects, it has settled ness regulations for degrees in medicine and surgery, and it has examined allogether the very large number of 6851 candidates. It has gained a new dignity in the handsome Senste Hall which was formally opened last August , and it has suffered a severe loss in the resional tion by our Chief Justice of the Vice-Chancellorship which he had held for the previous three years. The lustre and distinction which Sir Henry Richards lent to that office, and the spergy with which he devoted himself to it smid his many other pre-occupations, are well known to those of you who worked under him, and have earned for him the gratitude of the University I can wish his successor, Dr Sundar

Lal, no kinder fortune than that his reign may be as successful and as popular as that of our distinguished Chief Justice.

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GOVERNMENT'S EDUCATIONAL POLICE.

Members of the University, when your present learned Vice-Chancellor invited me to address Convocation to-day, he suggested that I should explain my views and the policy of the Local Government regarding education. To do that would eat up the short hours of the remaining day. and would undaly detain one young friends who are eager to return to their homes in all the new dignity of their degrees. But perhaps you will accept a brief outline of how I estimate our present and immediate needs. As we know well. education, like religion, comes to bring not peace but a sword. It brings not the peace of passive acceptance, but the sword of questionings and searchings and strivings. To some minds it brings more. They see in education the motive power for that parest which makes men discontented with their social environment, with their employers, with their government. They regard education as responsible for the disrespect of servant to master, of the young to the old ; responsible for many disquieting inroads on our ancient peace. With such doubts it is impossible not to feel some sympathy. But we may look beyond the present twilight of our educational system to a clearer day. The stage of transition and adaptation to new ideas may be long. It will pass however -- such at least is my hone and belief-into a stage where education will not be divorced from contentment, or the pursuit of knowledge from reverence.

In any case, gouleance, the practical position with as is free from all ambiguity. The gracious announcement of the King-Emperor at Delhi has shown as the way and set us our course. The Government of India is presided over by Viceroy whose warm sympathy and unsparing labour are, as I can assure you from personal knowledge, devoted to the advance of education.

And under Lord Hardinge's Council, you have a skilled department specially created for that cause and now settling down to the great task before it under the brilliant leadership of one whom you all know-Sir Harcourt Butler. The Government of this country has thus put its hand to education, and we cannot turn back the hands of the clock. My views, and the policy of the Local Government, are therefore, exceedingly simple. We are bound to push on the education of the people in all its branches. by every means in our power. A comprehensive scheme of our operations is now being prepared. It will show, I hope the order in argency of our needs, their approximate cost, and the ratio in which the work may properly be shared between Government, local bodies and private enterprise. When the scheme is ready, we hope to unblish it for discussion before it is submitted for final authorization, and to be favoured with the opinions on it of the University in particular. What the scheme will comprise, I cannuot vet say in detail ; but certain essential features in it are clear, and I will mention them in the briefest possible manner.

PRIMARY EDUCATION.

Let us begin with primay education. We hope to see it widely extended as rapidly as respectable teachers can be procured and trained. For that purpose we must establish more training centres and above all we must provide for a scale of pay which will enable our primary schoolmasters to live in decency and self-respect. There is no reform with stronger claims upon as in common humanity and in the interests of the rising generation. Then we cherish the helief that primary education could be made much more serviceable to the people if it took more account of the needs of the spricultural and artisan classes. A proper system of primary education should provide suitable instruction, not only for the children who will use the primary school as a stepping-stone to the secondary school

by building hostels, and by pressing for adequate supervision. But the in-dwelling spirit from which these virtues flow must spring from the minds and influence of those who have the College under their daily cars.

THE UNIVERSITY.

Lastly, we come to the University itself. For it I hope that our scheme will provide liberal assistance. By the establishment of a Law College the first steps has been taken towards the transformation of the University from a purely examining body into a gennine teaching University. The orders of the Government of India on your proposals for the utilisation of their recent grants of Rs. 45,000 a year and a lump sum of Rs. 300,000 in the establishment of three additional chairs are still awaited. I trust that in principle at least your auggestions will be approved. The most argent need of the University is more teaching and more post-graduate and research work. Apart from this, money is required for the construction of the library block, Sir Swinton Jacob's plans for which are ready. for a Law hostel, for residences for the Principal of the Law College and the professorial staff to be attached to the contemplated chairs, for the purchase of books and for general administrative purposes. For some of this we look partly to the endowments of pions donors; but Government will also try to help, as it is identified with the progress and dignity of the University which, whatever the future may bring, will always retain the honour of being the senior in these provinces. And now, gentlemen, you have my confession of faith about education. I have omitted much, and especially all controversial matter. There is nothing new in the statement nothing original. Most of the reforms on which I have touched were worked out under my predecessor Sir John Rewett, and all that is now being done is to bring them together. For saying so much as I have done, my excuses must be the

Vice-Chancellor's injunction and a desire to avert any suspicion of beterodory in my educational creed.

ADDICE TO STUDENTS

Members of the University, I must not fax your patience much longer. But will you at my first meeting with you, permit me the expression of a few thoughts which I would commend to you and to the young graduates who have to-day received their degrees. I do not profess to speak to you as a man of learning. I do not wish to invoke the gubernatorial authority which her been for only two months on my shoulders. Rat I have had a great deal to do with University men and I have watched the career of many of them with affectionate interest. Above all, I have a fervent faith in the rise and progress of India and a deep conviction of the part which our Universities can play in the upward movement. It is on your citizenship, therefore that I should like to offer a few words of advice to graduates and under-graduates slike. I am not going to weary you with platitudes about education being a means and not an end, for about the imperfections of our literary training or how your education does not conclude, bat only begins, when you take your degree. All that is common knowledge, and until we can make our educational system a more powerful agent for touching the soul and tempering the character these traisms are but irksome verbisge. What I ask you to consider to-day is the special obligation of life and example that rests on you as University-men when you go out to work among your fellow citizens. You many forget much of what you learned at College. Your classics may get rusty, your science out of date, your history shaky, your integral calculus a nebulous memory, but the spirit of your college life should remain the hard work, the esprit de corpe. and the balanced judgment; and it is this spirit with which you can illuminate the ordinary business of life. Moreover, a degree makes yo

a marked man, your neighbours watch you, copy you, are indiscused by you us a manner which you may not sespect. Each of you in his circle is the toochstone by which the value of education to tested, and on your conduct the credit of the University largely depends. What is it then that you can early away after your college days are over, and use for the bettering of your fellows by precept and by example? There are many such things, but three of them stand clearly out. You have learned the need of a calm and balanced judgment, the value of coordinated effort and the supreme power of truth. I have a vary few words to say on each of those your fellows between the colleges of the continuation of the continuation of the continuation of the continuation of the supreme power of truth. I have a vary few words to say on each of those your processing the colleges of the colleges of judgment is what your books have

surely united to teach you the dispassionate marshalling and weighing of facts in order to determine their effect. The need for similar addement must appeal to you every day in the practice of your profession or calling it turns the balance between success and failure at every step in your own affairs Will you not use it also gentlemen, for the benefit of your neigh bours? Their judgment has not been trained as yours has been They will turn to you for enidance When foolish and baseless rumours are unsettling the people, whether about public affairs or otherwise, you can do much to dispel them When guests of emotion stir the crowd. you can apply the sedatives of common sense Bogus nostrums, in politics, in medicine, or in any other sphere of life, do not take you in, and surely you can help to relieve your ne ghbours of their tyranny You have been taught to judge between good and svil Exercise that gift, and lend it to your neighbours You will thus belp to make them happier and better citizens

The second lesson which I ask you to share with others is the value of combination It is not a lesson that needs a University to teach it but your bistory and your mathematics must have given you a secentific has a fort and must have laught you to be peculiarly satisfied for the beginnings of friction and disintegration

You know, with a conviction that passion should never shake, how certainly dissension undermines the family and the State. It is to you educated men that the well wishers of India look, to check dissension and to impress on your pergbbours the disasters which attend it You have endless opportunities. There are the family quarrels which are constantly with as, they have often the most trivial origin , but their net result is that enormous sums are poured into litigation which the country sadly needs for fertilizing its soil and fostering its industries. Then again, there are the petty realousies which clos public life and interfere with municipal advancement And there are many other instances of wholly needless friction To my mind, none of those at the moment is sadder or more unnecessary than the acute distrust which in many quariers is threatening to break up the old friendship between Hindus and Mahomedans If it were a mere passing wave of temper, I should say nothing about it But, in parts at least of these provinces racial feeling is now permeating and embittering the life of the community to au extent which I have never observed before There is no sustification for it Hindus and Mahomedans have lived in amily in the past without any sacrifice of their respective rel gions Nothing has happened to make it impossible for them, with a little mutual forbearance to do so still Gentlemen, there is much that you can do to prevent these divisions When I enquire into the causes of schisms I am sometimes told that educated or professional men have been involved in fomenting the trouble I hope and trust that my information is wrong : I set too high a value on education to belive that it can readily be degraded to such a use. I am confident that you at least will place patriotism above self interest, and I appeal to you to exercise all your influence in your various epheres of life to check these growing stils India cannot be divided and prosper.

The last point on which I wish to touch is the annrame value of truth. If, as we believe, righteogeness exalts a nation, it is your duty and mine if we wish India well to wave incessant war on half-tenths and falsehoods. Your education has taught you the great and enpobling power of trath. Carry that knowledge into the circle you live and work. Set your face against intrigue and back-biting. Practise plain speaking and encourage it in others. When the people are being misled by a false guide help to unmask him. When lies are criculated about the artions of Government, or the motives of your nablee men, or the character of your neighbours, disown the falsehoods and attack them Education has stood for the removal of corruption from public life, from the public services. Let it make an equal stand against intrigue, misrepresentation, the thoughtless untruth, the malicious lie,

Members of the University, I have come perilously near to preaching you a sermon this afternoon. I sak for your indulgence if I have strayed beyond the ordinary academic limits of a Convocation address. But you, who represent the forces and products of education in these provinces, are if I can gain your confidence and co-operation, partners with Government in the great work of progress and salightenment. At this my first meeting with you, it is my anxious desire to bespeak your helpand to suggest the lines on which you can work for our common object, Education has its responsibilities as well as its privileges. Accept these responsibilities and join hands with those who have the welfare of India deep in their hearts. So shall we move forward slowly to a great Imperial ideal of citizenship, like unto the "sacred fane," which was to be no home of party strife or sectatian schiam.

But loftier simpler, always opendoored. To every breath from Heaven; and Truth and peace. And love and justice came and dwell therein.

Such, according to the post, was the drawn of the Emperor Athar. It may be only a dream, The militantium is not yet. Universal pasce and happiness is a fr-off ideal. But we can all of us in our degree influence those around us and the influence of an adorated man hat a yalse particularly its own. If you can use that influence in the direction of greater charity, concord and truth, then the University will be justified of her children and the Kingdom of God will be setzer.

EDUCATION IN THE MAGAZINES.

Mr. Edmund Gosse on Poetry.

Mr. Edmund Gasse presided at a Browning Cantenary dimer given at the Hotel Geel by the members of the Poetry Society. Among the Castle were Earl Brassey and Lady Helen Brassey, Lord and Lady Southwark, Lady St. Davids, Sr Squire Bancroft, Mrs. W. H. Kondel, Mrs. Edmund Goese, Mr. Israel Zungwill and

Dr. Blake Odgers. The Chairman, in proposing 'The Immortal Memory of Robert Browning,' said that he was not aware that this dinner was to be associated with Browning's rame. It was the twenty-third anniversary of Browning's death. Now, had it been the twenty-fifth anniversary, he felt that his ekonence might have been inflamed, but on the twenty-third anniversary of a melancholy event he did not feel that there was very much to be said; and therefore he proposed to take for granted the fact that this was a Browning celebration, and turned to another subject, on which he had intended to speak. Speaking then on the subject of poetry generally, he said that there could be no comprehension of the real character of posity if we considered it as an art which abruptly ceased to develop when we ourselves were approaching middle life; and yet that was the attitude of the majority of those who discussed it. They seemed content to believe that what came into existence in the far-away dawn of human intelligence, and had been the living organization mankind ever since, anddenly became a museum of specimens a few years ago, when they ceased to be young and frieky. But the elements of joy were eternal, and it was not in poetry, but in ourselves, that the sources of vitality dried up. Disenchantment, the sin which did most easily beset us in advancing years was the token not of healthy faste, but of the deadly and anti-poetical scepticism which was the antithesis of good taste. It was important, therefore, that we should continue to look out for nev expressions of poetic genius. But we must b sure that we were not led away in our desire to be discovering novelties, or duped by a merself-advertising violence, or by revolutionary artifices which had nothing truly poetical about them. We needed to divest our minds of prejudice agrinat everything which was new and strange and at the same time to be on our guard against preposterous disregard of those principles of barmony and beauty which were absolutely essential to the existence of poetry.

Mr. C P. Ramaswami Iver on Education

Mr C P Ramaswam: Lyer made an interest ing speech in seconding the resolution on Edu cation at the Bankipore Congress from which we extract the following —

Not the least notable of the Royal boons announced during the visit of the King Emperor was the manguration of a forward movement in the educational policy of the country by a liberal initial grant in the cause of education and by his gracious promise that that grant would be augmented as time goes on His Majesty has thereby evinced his deep and abiding love for the masses of the country and his solicitude for their true welfare. It is unnecessary to dilate on the absolute necessity of a system of free and compulsory education throughout the country One need only recall to one's mind the famous dispatch of Lord Curzon, who himself has declared that the extension of elementary edu cation is the only true solvent of India's troubles. The main reason for the defeat of the Hop Mr Ghokhales Bill is the view taken in high official quarters as to the alleged disproportionate expenditure that would be entailed by Mr Gokhale's proposals The view of the late Sir Herbert Risley has found favour that free education is tantamount to reduction of taxation. Surely it is impossible to take a more short sighted view of the situation Free education ought to be regarded not as involving reduction of taxation, but as the fulfil ment of one of the prime obligation of the State

Gentlemen, you will realise that throughout the length and breadth of India in the year 1910-11 there were only 631 lakes of school going youth of both sexes and the proportion for that year of school going population to the whole population was only 1 9 Even the most back ward countries of the world, Russia and Ph lip pines, easily beat us in this respect During the last decade whilst the military expenditure, expenditure on railways and on the civil establish ments have increased by crores, that on edu cation has only advanced by a few lakes even this is gradged by those in power, let them, we ask, apply to India standard commensurate with those in other civilised countries of the world. In England 25% of the general revenues is spent on education, in Germany even more. Is at to be tolerated that for every four towns and villages on an average there should be only one school for boys and for every 40 towns and villages one school for girls? These figures speak for themselves, and unless we are content to let our masses grow up in ignorance it behoves us to

make all possible efforts to strue for the introduction of free and compalsory education throughout the country, bearing obserfully it necessary the burden of any educational ceas that may be leved for the purpose, a burden which can certainly the more lightly be borne than many another that I can came. If by private efforter by commoning Government we can solver the reform all other reforms are bound to follow inevitably and in due course.

This resolution embraces another senect of the educational problem, tiz, the establishment of teaching and residential Universities in India. Whilet the spread of elementary education is necessary to lift the masses from the mire of ignorance, this reform is essential if we are to have an organised band of efficiently educated men to form the vanguard of national progress Complaints have been frequently heard that higher education in India has been barren of results and have so far culminated only in the glorified clerk. The explanation for this is sought for in what is called the soullesaness of Indian education The answer is to be sought not in the lack of moral or religious education but in the entire absence of presumed education To make higher education profitable it ought to be imparted somewhat in the manner of our ancients adapting it, of course, to modern require-Each student bas, as far as possible, to be taken in band and his individual requirements studied Research is not possible in crowded class rooms cramming for competitive contests

If assimilation as d not imitation is to be the arm of higher education, that aim cannot be achieved by a number of isolated examining Universities It is gratifying to find that the Government have recognised the extent and magnitude of this evil and have made attempts both at Calcutta and Dacca to form a ppcleus of teaching and residential Universities But both State and private enterprise ought to co-operate and cover the country with a net work of residential Universities which will impart true culture and serve to create a body of students who will organize research and prove the mestimable benefits of the caprat de torns and moral tone which would be inseparable from such a evatem Deeply thankful as we are to the inangurators of the Hinda and Mahomedan Universities we want not two but 20 such Universities serving to incite all the brighter intellects into a federation of disciplined acholars whose aim will be to carry forward the traditions of ancient and modern culture and science for the lasting glory of our country,

Modern Languages and the Universities The Need of Reform.

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The annual meeting of the Modern Language Association was begun on the 8th and resumed on the 9th inst, at the University of London. The main aubject of disquesion was the modern language courses at the Universities.

Miss Spurgeon read a paper written by Miss Toke, Principal of Bedford College, London, in which she declared that the study of modern language, even with medieval thrown in, had not proved equal to that of the classics in producing a scholarly habit of mind. But she was not convinced that this delect was inherent in modern language as a subject of study. It was probably due to the fact that the training had been far from careful and thorough. Possibly there was a conflict between academic and utilitarian sims which did not exist in the texching of classics and history. What she desired from the atudy of language, ancient and modern, was that it should widen the outlook, and train the intelligence and the reasoning powers A language taught with those ends in view would avail, whether it was needed for business purposes or not. The study of a language trained the mind by demanding accuracy and by the use of reasoning powers in the understanding of the grammer and history of the language. The outlook was widened by the acquaintance afforded with the life and thought of a race other than our own, and by the study of its literature, history, and social customs. She would prefer that German should take the place of French as the modern language most generally taught in our schools, because German afforded a better training for the child's mind and its literature was more easily appreciated by young persons. Latin should come second. French should begin late in the school course, and should be taught only to those children who had a foundation of Latin. Pulling this chappe they should demand that a student who entered a University with the intention of making French his study must have a good basis of Latin. It was essential for a student of literature to know something of the historical events which formed the background of that literature; and he could not appreciate any one period of literature unless be had some idea of the general chain of

literary development. In the honours examination in blerature the student should be required to write his accurate in the language he was studying. In composition a sufficiently Ligh standard was not set in regard to accuracy and nicety of expression. That criticism held good not only in regard to foreign languager, but also to English. It ought not to be possible to obtain high bonours in English at a university, and yet write ungrammatically. The standard set was still less adequate in regard to the spoken language. The oral test should be concerned only with excellence of expression. There was a tendency also to insist too much upon the philology to the detriment of the other sides of the ambiect. This danger could be avoided by allowing greater liberty in the examination which would permit the candidates to specialize on the literary or on the philological side.

Professor Miluer Barry, University College, Bangor, outlined the present modern language courses in the University of Wales and indicated reforms which seemed to him to be desirable. Every effort, he said, had been made to prevent the decay of German in the Welsh schools, but failure had to be confessed. He thought the remedy was to accept German as an alternative to Latin in the Welsh metriculation and to remodel the university course so that under carefully guarded conditions they could offer an honours scheme which would at least be as sound educationally as the present schemes, containing as they did compulsory intermediate Latin or Greek. As far as modern languages were concerned, he should like a four years' course, with facilities for spending the third year at a foreign university. The course should include a knowledge of the history of the country concerned.

The Moral Evolution of France.

Professor Camamian, University of Paris, read in French a paper on the moral evolution of France as exemplified in recent developments in the political life of the constry and the new spirit which had animated its citizens. France, he said, had scandalized her neighbours many times, and even the clouds that had passed over the English nolitical sky of late had not reconciled Englishmen to the storm? propensities of French politicians. Yet there had been changes which might have escaped attention in England The political atmosphere of the French nation was altering and improving it was becoming more like the political life of England and England was still the country that was most interested in the difficult art of self government. Boropo was spit to charge the French citizen with instability in highlines and to attribute that instability to lightness of beart and midig to impatience of the law; to lack of perseverance and of respect for traditions and customs. Frenchmen were growing conscious of the truth of this criticism to some extent

The fact that France had subjected herself to self examination in the light of European opinion and had endeavoured to correct her failings was evidence of advanced psychological evolution and of a new initiative in the progress of human life. The great trial of 40 years ago had produced a serious feeling in their minds and hearts Though France had made up for her loss to a large extent and might now look to the future with confidence. Frenchmen had studied the moral meaning of sacrifice and knew themselves better France was trying by the practice of sports and open air exercises to acquire the habits of self-command discipline, concentration, and combined effort. The French were trying how to handle the Parliamentary machine They were trying to put up something like a guillotine but they proposed to use it in a manner different from the old one The three candidates for the Presidence were all scholars and members of the Institute as well as politicians. The average duration of their Ministries was increasing though it was not yet what it ought to be The moral unity of France was progressing and the recent elections passed in a calmer atmosphere than formerly They were trying to pay more respect to the law and to be less peacefully submissive to the agents of the law Although France would remain a southern as well as a northern nation and would preserve the variety and richtess which she owed to her double nature still the moral centre of France was rather shifting to the north. That was evident in the calmness of France at a recent trying moment. That calmness was quite natural, they were not conscious of it The liberty of Fogland would perhaps always be a little more substantial and practical than that of France. But the liberty of France would probably remain more intellectual and more ideal. They would always try to retain in their maturity that youthful joyoneness which pleased both them and Englishmen.

The Geographical Association The Objects of Education

There was a large attendance at the annual meeting of this Association at London University. The annual report stated that the number of members was now I 000 an increase of 38 during the year It also referred to a consmittee which had been appointed by the Association to discuss with the representatives of the Board of Education the draft of a new edition of the suggestions for teaching ageography in clementary achois.

Mr Mackinder MP opened a discussion on the teaching of geography and history as a combined subject in schools. He said that they had three things to do in education-to teach the three " R's." to teach sooner or later some art which would enable a livelihood to be earned and to make citizens If they were to make good citizens they must imparthe admitted on allow plane—that sense of proportion and perspective that outlook which came from the study of the humane letters in a university. It was possible for them to do much with children between the ages of ten and 14 provided they knew a great deal more than they taught and selected the great facts both of history and geography correlating them and teaching them with such appeal to the visual zing power that they lived in the mind and presented the grand development of human society in outline but outline defined and indelible. The time was when the really important thing for the man in the village was the village pump, now it wis the place where his wheat was grown. He neged that the Government and the universities in their different ways should require the learning both of history and geography by those who were going to be teachers in the schoolsbe was not speaking of the higher secondary schoolsand then give them freedom not requiring them to teach the subjects separately but saying to them "You have your equipment throw pedantry on one side what you have to do is not to teach history and geography, but to give an outlook on the interesting

world into which the great majority of your students are going."

Miss Spating thought that while elementary aducation ended at 14, its limitations must be accepted. Her experience of children was that in geography the things which interested were those of their immediate environment, and that it was only with a great mental effort that they took in vast geographical appares; that in history, they were structed primarily by individuals, and were little that to occavity of communities.

Glaciated England.

Professor E J Garwood, who was elected President of the Association for the ensuing year, gave an address on " Arctic Glaciers and Glaciated Features of Britain" After dealing with the deposit that characterized the placial period in Britain he said that there were only two theories of their formstion which needed to be discussed in the present day. The earlier prologists were in favour of sea ice as being at all events a very notent agent, while the vonneer peologists supported on the whole the theory of land ice as the chief agent. The edge of the British Isles must have been a sort of debatable ground between the two, for the chief interest of our islands was the fact that in addition to the ice which accomplated on certain mountain centres there were invading foreign masses. His conclusion from recent study in placial various was that England was glaciated by land "ice, by a series of local glaciers, complicated by two great ice seas, one on the east and the other on the west coust; and that most of the phenomena previously difficult to understand could be explained by sindy. ing ice in the Arctic regions

Science and Literature.

Sir A. Geikie fon the position in Public Schools.

- .- The general meeting of the Association of Public-School Science Masters was opened on Wednesday the 6th inst. at the London Day Training College.
- Sir Archibald Grikie said that 60 years ago is was quite possible for a man to have carried off the most valuable prizes at a public school, and to have taken a good degree at the end of his university

career, and yet to be ignorant of even the rudiments of any branch of natural science, and consequently without the knowledge and training that would enable him intelligently to appreciate the nature and interconnexion of the discoveries in science which were working such changes in the modern world and throwing such a flood of new light into our conceptions of the polyerse. He remembered meeting on one of his reological rambles in the West Highlands, in his early vonth, a man who had taken a degree in arts at Cambridge, and distinguished himself more especially in classics. In the course of their conversation he alluded to the Gulf Stream, in an endeavour to explain some of the main causes that were believed to determine the climate of these islands, when his companion broke in with the exclamation, "Gulf Stream. what in the world is that?" While strongly in favour of assigning an adaquate place to the teaching of science in public schools, he had always not less strongly felt that the literary side, from its manifold human interest, ought to remain predominant in any wise system of education. No amount of training in science could compensate for an inadequate training in literature. It was to its literary education that Britain owed the breed of public men who through the centuries had built up her greatness and nothing ought to be done to injure the noble work which the literary side of education still carried on. But in the course of time men had come to realize the interest and importance of ecience in the modern world, and to comprehend that there were faculties of the human mind which it was highly important to develop, but which were comparatively little affected by a literary training. Those faculties were best reached by a study of science. Thus the combination of the two sides, literary and scientific. provided a scheme of education which, in the pres. ent state of our knowledge, was the most perfect that could be deviced

Professor H. B Biker, of the Imperial College of Science, was sleeted President for 1914.

Practical Examinations in Science.
Mr. Douglas Berridge (Malvera) spoke on "The
Mr. Douglas Berridge (Malvera) spoke on "The
Scientific Knowledge". He said that the exami-

nations might be divided into those at which an external examiner was present and those more elementary ones at which the invigilation was undertaken by some other person than the examiner The great diffi ulty in the case of the former ex-Amination was the lack of anill sent apparates for the large number of candidates Landon University had overcome it in a most openistisfactory manner Six questions or so were printed and one was allotted to each candidate in turn. The candidate had no choice in the matter; he must do the question given to him or loss all marks. The same system had been adopted by the Civil Service Commissioners up the two examinations that had been held by them under the revised regulations for entrange to Woolwich When it was remem bered that 400 marks were given for practical work in physics and an additional 200 for practical work in chemistry, the unfairness of allowing chance to enter into the competition would be anderstood One of his Army candidates last July was unusually weak in science and almost the only practical work he could do in physics was to determine the ancarent expansion of a liquid. It so hannened that the operation given to the candidate in the examination was to do this, and possibly three quarters of his marks were for the result he obtained. The candidate did not pars and he took the examination again last November when, as luck would have it, he was again given the same problem As an Army tutor be (Mr Berridge) was pleased, as an educationist he was saddened In the case of examinations at which the actual examiner was not present the problem was naturally much greater. For one thing it was almost imposs ble to make an adequate allowance for accidents which were not seen by the examiner In his own experience a boy who was weak in all kinds of manipulation was being examined in practical chemistry when, near the end of his ex persment he broke his glass. As in duty bound he reported the occurrence to the Board on sending in the papers and the boy was given much higher marks than many who were greatly has superiors but who had the misfortune not to meet with an accident. He could, of course also give in stances of pupils of his having suffered un

justly through the defects of the system. Another objection was that for some psychological reason which he did not understand an examiner seemed to take less care in the preparation of a paper at the working of which he would not be present than to the preparation of one that he would see worked out by the candidates. The alternate practice of London University, in its Matriculation Examination, of allowing candidates to take chemistry as a subject without exacting any proof that it had been studied in an experimental manner was detrimental to the students. His proposal was that all examinations in bractical science of a standard not higher than that of "Matriculation" should be abolished, and in their place a certificate from some responsible person, stating that a given number of hours had been spent in practical work. should be exacted from all cand dates before they were allowed to set for a paper in science. The question of " home students" was a difficult one Still, he considered that no form of ecience were suitable subject for those working without a teacher. and such students would gain a far better intenduction to science by taking mechanics at the Matriculation Examination than by trying to learn chamistry by themselves

In the discussion which followed general agree ment with Mr Bwridge as to the unsatisfactory character of the practical examinations in genero was expressed, but there was a difference of opinion in regard to the changes suggested by him, and no recommendation was made.

Newton in the Schools

Mr W D Fggar (Euco) read a paper on the "Value of the Ristorical Sequence in Taching Physics." He thought that if a teacher made a subject dail by treating a subject businessly he might with advantage rewrete be order. If history did not serve the purpose of supplying thams increast in might will be mighested. Electricity touched human life at so many points nowadays that there might well be mighten ways of superior to the state of the subject of the s

trace the development of ideas which calonizated in Naston's discovery was to open a new vista. Putting it on patriotte grounds. Englishmen might be expected to know more about Naston that stock anecdotage. The calcasted man usually knew as somathing about Shakespears's play. The patriotte deep resident will leaving his second best bed to his will every end in our important when the second best bed to his will ever of mior important on the second best bed to his will ever of mior important on the second best bed to his will ever in one man comparable with each of the second was the can man comparable with a min of the second was the calonization. Nowton was the cap man comparable with a mythical figure. Nobody had suggested that a mythical figure. Tobody had suggested that wrote the Principle's Year to meat boys. Naston was the man on whom head the annotal fell.

Mr. O. F. Datell submitted that in the class instruction the teaching of "danesting" about be partition the background, and that of "roomage" be given priority in order and importance The word "comage" was need in the Navy. The word "comage" was need in the Navy. The mean English scientific tear was "specific rolumn." In though the advantage of the single word, with its familiar cook, was oblivious, and as "roomage," afforded direct appeal to the syp! It was more easily creamed by tows than "dentity".

Teachers and their Salaries.

The Conference of the Incorporated Association of Headmatters was continued on Wednesday, the 8th inst As the outset the succing passed a vote of condoions with the relatives of the late Ganon Bell, who was President of the Association in 1904. An interesting abste took places on the proposed new ackness of examination for responsions at Oxford, but the Conference, while approving the release in general, expressed has regret that Greek still remains compilatory subject. The conditions of service of assistant teachers were discussed, and a resolution was adopted urging the establishment of a lequate salary scales in secondary rephole, show regard being paid to the cost of tiving in the different darties.

Dr. McClure opened a debate on the question whether or not secondary schoolmasters abould broome Government servants, but no resolution on the subject was submitted.

The Rev. C. J Smith (Idameremith) mored, that it is a matter of urgent necessity to establish adoptate salary scales in escondary ecbook, for experd being gold to the cost of living in different districts. It is said that it was a press misolist that very largely the teaching profession was compiled to be a colubto one. It was only when no assistant master became also a body-keeper sould had many useful methods of adding to this income that he could take to himself a wile. Its himself became with a salary of 40 to vera.

Mr. A. A. Somerville (Eton College) said that the assistant masters recognized that the headmaster could not do the impossible. They knew that he had to deal with a needy governing body or with a local authority without understanding which was much more ready to build ornamental edifices than to pay the assistant masters adequate salaries. But headmasters, even if they could not make salaries adeonate, could give their staff such spare time as was necessary and allow them to use that spare time in other pursuits and to mixing with their followmen-The secondary assistant master, taking the whole State of Prussia, received an initial salary of £135 and a final salary of £360, with a rent allowance varying from £65 to £28 in the smaller towns. Every German State provided pensions varying from 75 to 100 per cent of the last salary received, and only half the States and those the smaller ones, required contributions from the teachers. He also proved that each school should provide free places for the sons of the nesistant masters. The lowest salary paid should be £150 a year, rising by automatic yearly increases of £10 to £300, and then by yearly increases of £15 to £450.

The resolution was carried unanimously

THE UNIVERSITIES

CALCUTTA UNIVERSITY

Election of Fellows

Professor Chandra Ghose, M A., and Kaviraj Jamini Bhosan Sen, M A., M B., have been elected Fellows of the University.

Orginally there were four candidates for the two Fellowships of the Calcutta University viz, Dr. Spresh Prasad Sarvadhikary, Professor Chandra Ghose, MA, Kavirai Jamini Bhosan Sen, M A . M B , and Mr. Dwaraka Nath Mitra. MA.BL Dr Sarvadhikary, however, retired from the field as he was averse to canvassing without which there is hardly any chance of being returned, irrespective of the merits of a candidate The contest was, therefore, confined among the other three candidates Professor Ghose, bowever, could count on the support of many of his colleagues as he already made his mark both in the Senate and the Syndicate during his term of office. It was only meet that he secured the largest number of votes Of the remaining two Kaviral Jamini Bhusan Sen, MA, MB, came in second And the "formal" announcement of their election has already been made at a Senate meeting.

Three New Honorary Degrees

A special mesting of the Senate of the Calcutta Durrerity was held recently at the Senate House, College Square Sir Arbotosh Mookerjee, Vice Chancellor, presided and there was a fair attendance of Fellows

The only item before the meeting was to confirm the recommendation of the Syndicate that honor ary degrees of Doctor of Literature, Doctor of Science and Doctor of Law, be conferred on Professor Herman Oldenberg, Dr. Andrew Rossell Forsyth, and Sir Tarak Nath Palls respectively

The Vice Chancellor moved that the recommendation of the Syndicate be confirmed and the motion was carried with acclamation

University Representative in the Legislative Council

At a meeting of the Calcutta University Senate, Doctor Devapresad Sorbadhikary was elected to represent the University on the Bengal Legislative Council

ALLAHABAD UNIVERSITY,

Election of Fellows

As many as a dozen rules for the election of ordinary Fellows of the Allahabad University Senate by registered graduates are published in the United Provinces Gazette Every reg sived graduate whose names is on the reguster, shall be entitled to vote Each votes shall be entitled to as many votes as there are accuracy, by the shall not record more than one vote for any one of the canduates. If more than one vote for exceeded by a voter for the same canduate, such votes shall be reckemed as one vote if a voter record more votes than the number of wacanese his vote shall be cancelled. The desired of the Deposit and that two members of the case of differences of populous between them, the decision shall be in accordance with the opinion of the majority.

THE PROPOSED MOSLEM UNIVERSITY.

At a recent meeture of the Foundation Committee of the Monlem Durierity it was committeed advisable to appoint a representative committee to act as plenipotentiaries of the community in carrying on negoniations with the Government Mr. Muhammed All, Eduter of the "Comrade," was requested to move and Major Hasan to account the resolution. In a speech of great persuasion Mr. Mohammed All related the whole having or the state of the step he was taking and posting the control of the step he was taking and posted the control of the step he was taking and the step he was taking an

Complete harmony is now once more restored in the community. The following are the names of the gentlemen who have been appointed, the finally settle all matters relating to the Mastim University—H H the Aga Khan, the Hon the Raya of Mahmadabad, Mr. Muhammad Ishaq Khan, Secretary elect of the Aligarh College, Neash Vikarolmolik, Sabebasia Alitab Ahmed Khan, Mr. Nabunlish, Mr. Warri Hasan, Khraya Ghalames Saglain, Mr. Shafi, Dr. Ighal Malik Mabaria Khan, Mr. Rishmand Ali, Jimah, Mr. Shakh, M

THE PROPOSED HINDU UNIVERSITY

FUND

Statement showing the amount of donations to the Hindu University received from 16th December 1912 to 31st December 1912.

[N.B.-Money still held by the Secretaries of District Committees or deposited in Banks other than the Bank of Bengal are not shown here]

Bronght over Rt. 17.02.070-4-8; Pt. Bishwanath Miera Jotahi, Benares Rs. 10; Collections from Campore, Rs. 15; Rojs Rempal Single, C.I.E., Ras Bareli, Rs. 10,0 0 ; Collection from Rai Bareli, Ra. 330 : Rai Saheb Lala Murlidhar. Amballa, Rs. 100 ; Babu Pran Hari Sen, Benstes, Re 1 : Collections from Bahraich, Re. 6.100 : Babu Bhairo Dutt Gosbain, Babraich, As. 7 : Baba Raj Bahadar Langora, Agra, Re. 1 . Pt. Bharat Chand, Delhi, Rs : 0 ; Biba Sunder Lal Sahn, Malde, Rs. 65 : Collections from Etawah. Re. 176-10-3; Babu Deckinandan Bhargara. Jodhan Rs. 9-14 0: Collections from Sitanar. Its. 100 : total Rs. 17,19,032-3-11 : Deduct collections from Calcutta as per letter No. 2339 of Babu Gokal Chand, Secretary, District Committee, Calcutta, Rs. 1.101 : To'al Rs. 17.17.931-3-11.

ABERDEEN UNIVERSITY. A Bequest-

The Aberdeen University bas received intimation of a bequest by the late Mr. Alfred Gilchrist for the foundation of burgaries in the Faculties of Art and Medicine, and of lectureship on the Propress of Medical Science and the Progress of Educational Science, the lectures to be delivered every five years by the Professor of Materia Medica and the Lecturer in Education.

LONDON UNIVERSITY.

Mr. Ratan Tata's Gift. A scheme has been arranged for the administration of Mr. Ratan Tata's gift of Rs. 21,400 a year for 3 years to the London University to promote the study of methods for the prevention and relief of poverty. A bureau is to be formed for the provision of information, and lectures are to be delivered and published on the aubject. Mr. R. H. Tawaey who has been connected with the workers of educational association, has been appointed Director.

GLASGOW UNIVERSITY.

A Bequest.

The late Mr. Robert Marshal of Glargow has bequeathed to the Glasgow University, by a apecial deed of trust, his lands and estate of Grangehill, Beith, or the proceeds thereof when sold, for the purpose of endowing a chair of modern languages in that University. The annual value of the estate is belween mine to twalve thousand rupres. There are, at present lectureships in the University in French, German and Italian, and there has already been endowed funds for chairs in French and German.

OXFORD HNIVERSITY

The number of new men who have joined the University of Oxford last October has gone down from 922 of last year to 873, but the decline is almost entirely accounted for by the fact that this is a year in which no new Rhodes scholars one of those 873 new men has brought Oxford, and specially the Magdalen, into all the illustrated English papers. A great effort seems to have been made to allow the Prince of Wales to live like an ordinary commoner. Though he has his own totor and a spite of rooms in Magdalen, such as no undergraduate has, he attends lectures and plays games in the bappy state of au ordinary mortal

____ Reviews and Hotices.

MORALS AND MORAL LESSONS, BY J. NELSON

FRASER, M.A. (LONGMANS, GREEN AND CO.). Az. 12.

This book is not a series of moral lessons as its title may indicate but a discourse on the question of moral instruction in schools and is intended for teachers. The author is evidently well acquainted with the characteristics of Indian students and has bestowed much thought and expresses very sound views on the subject of moral education in Indian schools. He recognises the limitstions to the practice of morality in schools and points out that systematic moral instruction as such was never given in any of the English schools, although the pupils acquired certain habits as the result of the discipline maintained in them, such as the power of facing hardship and privation, subordination to authority, responsi-bility, etc. He very rightly says that the surroundings of the pupils have a greater influence on their morals than the school-room, and therefore only so far as society seconds and supports the schools will the schoolmasters' victories in this sphere be real.

The author then discusses what feelings can be cultivated in schools to a certain extent and shows considerable insight into the failings of Indian arndents in general. He also discusses the relation between religion and morality and which of the various exactions of morality can be best appealed to in Indian schools. The book must be very interesting and useful to the schoolmasters who have at heart the real well-being of their students and who wish to form in them & sound character.

We are however, not pleased with the style of English used which is too suff for the ordinary teacher in schools and is not free from ambiguities and even grammatical instakes

KET TO THE EXERCISES IN EXCLISE COMPOSITION, BY W. MURISON MA (CAMBRIDGE UNIVER SITY PRESS)

Merson's book on composition has long enjoyed a well deserved popularity. The present 'key will enhance the value of the book by enabling those who have not the privilege of stadying it with the help of a teacher, to understand the prunciples of composition We have only to add that a' Key' is liable to abuse in the hands of an idle student.

MODERN ENGLISH GRAMMAR, DT J C MESTIRLD,

Mr. J. G. Assfield, the well known writer of school and college manuals on genman, has brought out a new volume for the see of students to the see of students of the see of students to the see of see

A TEACHER OF ENGLISH GRAHMER AND COM-POSITION, BY S. APPAIYM VOL I (LAWRENCE ASSLUB PRESS).

This is a book on the principles of grammer by an able and experienced teacher of the subject to the transfer of the result of the subject to the transfer is scholvily, claborate and thorough it is doubtful if the over muonet classification of terms adopted by the author will command the approval of the Figuish Teachers of to-day, approval of the Figuish Teachers of to-day to the transfer of the Figuish Teachers of to-day and accurate and reliable approximen of grammar.

JUNIOR MAGNETISM AND PLECTRICITE, BY R II JUDE AND SATISFACT LONDON: (W IB, CLIVE, URIVERSITY TUTORIAL PRESS, LID.) 21, 62.

This is indeed a ve y g xed book a most welcome addition to the volume of accentific matter at present within the reach and comprehension of atidents of Elementary Physics. It has about it many features of interest. The disgrammatic representations of appraising and experiments are

very nice Justice is done to the Theoretical as well as to the Practical side of the subject. The authors have taken good care to build up the subject on a logical basis by proceeding from the simpler and the more familiar to the harder and the less familiar parts of it. The experiments described and the apparatus suggested are so simple in character that one using the book need not despair of success in practical work to this branch of Physics The general treatment is most commendable in that it does not depart altogether from the old lines in respect of description and explanation. Of course, the more modern and intelligent view of electric processes is in evidence wherever such is to be preferred The examples worked, those given for exercise at the end of each chapter are useful in their own way Further, the answers to the exercises given at the end of the book are fuller and more in structive than those given in other books of the kind The appendix at the end of the book is atil designed and quite in place. On the whole, the authors of the volume have spared no pains in making it useful and instructive in every way Still we are tempted to observe that they would have done well to not ce in their book an in do ton machine, at least the commonest rather than the plate electric one, if not both They could have likewise given fuller explanation of the strong back L M F referred to in para 2 of page 206 As it is, the student is kept in sus pense which is certainly not desirable. Books of the kind before us are expected to be free altogether from typographical errors. But we can mention one at page 209 section 153 In the next impression such mistakes will certainly be avoided Nicely got up and carefully prepared as the book is in every way, it is a pity that it does not exactly meet the requirements of the Madras S S L. C. Framination But it might be well used as a companion volume or a book of reference, as there is in it a great deal of what we most want. We hearfuly recommend it to our funtor students of Sc ence.

THE ORGANIZED SCIENCE SERIES SECOND STADE INFORMATIO GRAMMITH (TREORETICAL) BY G H BAILET, D.SC., EDITED BY WILLIAM BRIDGS, LED, M A., B SC.; REFIRED BY H W BLESON, M A., LONDON (W. B. CLUE UNIVERSITY TOTORISH PREMS LED.) 4, 62

As the authors eay, the volume before us tegether with First Stage Inorganic Chem stry provide ample material for a satisfactory course in Incrganic Chemistry. The treatment of the subject is quite clear and up to date. The summary of the characteristic properties of each group of metals given at the beginning, as well as the section on the Detection and Estimation of each metal and that on the stomic weights of the whole group at the end of each chapter on Metals are the noteworthy features of the book. There is a large body of searching questions on the contents of each chapter given towards the close which greatly enhances the value of the book. The chapters on Valency, Radio-activity, Theory of Qualitative Analysis are particularly interesting, The experiments described are clear and instructive. and the apparatus suggested are by no means very elaborate. The diagrammatic representations of the experiments and apparatus given in the book are sufficiently attractive. We have no hesitation in recommending it for use by students of Elementary Chemistry.

THE FUNDAMENTALS OF PEYCHOLOGY, BY BENJA-MIN DUMYLLE, M.A. (LOND.) F. C. P. (UNIVERSITY TUTORIAL PRESS, LONDON). pp. viii, 382, 4s. 6d.

This email volume, as the sub-title indicates is " a descriptive account of mental processes for the use of teachers." While the author has taken care not to encumber the book with a large mass of unnecessary and perplexing details, still all the fundamental principles of psychology essential for the teachers' guidance are treated in a masterly way. We assure the author that the neychology expounded in the book is sound and up-to-date. The emphasis laid on the active side of mental life is admirable. 'Learning by doing ' treated of in the chapter on Percention should be brought home to the teachers in Indian schools The indispensable minimum of the physfology of the nervous system necessary for a correct understanding of psychological principles, is clearly presented. The author is not a victim to the mistaken tendency of viewing psychology as a branch of physiology which some students of nevchology exhibit. He rightly recognises that physiology is a supplement to, and not a substitute for, psychology. Mr. Domville's bock, is. on the whole, thorough and well-arranged and will be an illuminating introduction to teachers who begin a course in psychology. But we doubt much about the function he would have his book fulfil, eir, a text-book of psychology for teachers, nince the application of psychological principles to educational problems, is not as much as it can

possibly be To the general reader, we recommend this maxual as one which is popular, easy reading and farnishes a good deal of useful knowledge Although not written for the delectation of pillsosphera who might be left alone since they are already overbandened with ideas, the book is one which even the pillsospher may read with a continuous control of the pillsospher may read with addition to seek chanter of a set of ouastions.

AN INTERSECTORY ECONOMIC HISTORY OF ENGLAND, BY STANLEY SALEON. (LONGMANS, GREEN AND Co.) 14. 6d.

This little volume though intended primatily for school use presents certain good features which are not ordinarily found in elementary text-books. The author does not treat economic history as a mere chronicle of new enterprises and discorries but tries to give a clear view of the growth of conomic ideas underlying the present English industrial system. The devotion of nearly full the book to topic his poor-relief, backing, the interest in the minde of young readers and bely them in a rational comprehension of the various sides, both good and evil, of English national

economy. The practical utility of the study of a

book like this renders it valuable for other people

besides mere school boys.

HAZELL'S ANNUAL, 1913. Our old friend Hezell's Annual has turned up as usual at Christman time to present us with a connected story of the events of the past year and a guide to the questions likely to come to the fore in 1913 The story of the Balkan War is brought down to the armistice of Tchataldja, and is illustrated by a map which has the advantage of having been drawn after the victorious progress of the allied armies, and of showing, therefore, all the place-names mentioned in the narrative. Maps illustrate also special articles on the Panama Capal, the Marconi Agreement, and the proposed Trans-Persian Railway to India. The points of the political, social, and religious movements of the day are presented with a clearness which renders them intelligible to anyone, while the interests of scientific, artistic, literary, and sporting tastes are estered for as fully 24 usual. Some idea of the extraordinary extent and rariety of the information compressed into this indispensable volume may be conveyed by the statement that its index fills \$4 pages and contains about 7,000 references.

Indian Educational Motes.

Madras students studying in Europe -The approximate number of the Madres students who went to Europe during last year has been but down at 37, excluding two who went to America. Of this number 28 were Hundus, one a Mahomedan, three the domiciled community and fire Indian Christians There were only three ladies in this number Of these, it is understood that 24 have formally or informally consulted the advising committee and titue have expressed their willingness to be under the guardienship of the Adviser Two of the number are Government scholars and one is a scholar sent by the Vysia community, eleven intend to take University degrees in arts or science seven go in for engineering six for the bar, eleven for medicine, four for I C S and other services. two for forestry and one for accountancy With regard to their educational qualifications we are told one 15 an M A , eleven are graduates three have passed in two branches of the B A eleven are F A's. four are Matriculates, four hold School Leaving Certificates and one bas passed the Combridge Local, while the qualifications of two are unknown

The Christian College Day —The twenty second College Day of the Madras Christian College was celebrated on the 27th olume in the Anderson Hall with Rao Babadar W L Venkstaramarya of Berhampore, in the chair, when a large number of past and present students of the college were present

A social gathering was held when light refeashments were served to the greats. The greats then moved to the Anderson Hall where the necture from the movement of the theorem that the second of the King Bapperor. The total was carried, the sodieties standing, and it was honoured by the singing of the National Anthem. The Chair has College and Mr. Ever Peal Philey the tone of the College and Mr. Ever Peal Philey the College and Mr. Ever Pe

The Evalution of Taloga Pross —Prof. B. Sesha giri Bao, w. a of Varianagaron delivered a come of four liceures in Taloga on the above subject of the local Kalikoto, College noder the superior of the local Andhra. Blashabbuvardhant Samijan The lectures began on the lest of January and common of the superior of the first fir

In the second lecture he pointed out on what basis a classification of Telugu Literature could be made. In the third lecture he illustrated with reference to his alphabet charte the pome that certain apper-measal userciptions (which he read) from Nellors loscriptions could be referred to the times of Nanasya and were beyond that period and aboved how to Sandhy, gearmanical forms and diction they talled with Nanasya's proce showing thereby that a tradition of Literaty, Teluga proses was formed over 10 yills the min of Sanasya just as the London than the Control of the Control of the time of Chancer was formed by the time of Chancer.

time of Unater, which he there open to deales, and the constraint with the belo of texts from Adhar vans Kinna and Appakan the question of what so Granya and showed that according to their clear attenuents it is the only language of the unreduced clears that should be celled Granya and the faugurage of the police and refined endoused people and the support of the police and refined endoused propile marriants and Even and the Granya account grant marriants and Even and the Granya account grant and the support of the police of the

The lectures were attended by students for whom they were mainly intended

Re organization of Training Schools—Nomodressand that the scheme of re organization of Government Training Schools for Masters in the Madrae Presidency take been sentioned by Government and it will be brought into force in the convex of a few weeks the mast changes being the inclassion of the matters employed in these schools in classical states of the schools. There will be in all, at Recordary fen Elementary Higher Grade and 14. Flementary Lower Grade Government Training Schools for Masters in which will be employed at vachers on Rt 200 and 31 Sch Assistants and 62 Tenerators of Elementary Schools of the real stacked to the action of the model technical stackeds to the actions.

Grat to Wester College—The Covernment of Metata here amounted a grant not exceeded a Metata the exceeded and the Grant for the Covernment of Metata here and the Grant for the Covernment of the State of Covernment of the Covernment of the Metata of the Covernment of the Wester College. Royapaths above to the following conditions—(I) that in currying on the work the Wester College Covernment of the Covernme

The Tamil Academy — The Fresident and members of the Tamil Academy Madras, had a social gathering at the Victoria Hall recently in order to meet the Hon beat Fr. K. Uniambaranetha Modalar, one of the newly-elected representatives of the Noother group of Landhollers in the Madras Legislive Council. The gathering was attended by a large

number of distinguished and is fluential men. Bao Sabib T Ramakrishna Pillay, President of the Academy, received the guest on arrival and a meeting was then held, presided over by the Hon bie Mr Justice T. Sadasiva lyer, Mahamahopadyaya Swaminatha Iver spoke of the guest as being one of the foremost patrons of Tamil literature, being himself a profound Tamil scholar Mr Justice Badasiva lyer observed that Mr. Chidembaranatha Mudeliar was sure to be an acquisition to the Legislative Council. He was a very infigential landholder in the Tanjore District, and having benefited by Western education had most enlightened views on all important subjec s. The Hun'ble Mr. Chidamberanatha Mudaliar made a suttable speech thanking those present for the honour done him and promising to work in the Council to such a way as to deserve at least a little of all the fittering things said by his friends.

Basel German Mission High School Day, Mangalors -The close of the long term of the scademic year 1912 13 was marked by a grand and impressive ceremony in the B O M High School, when the school-day was celebrated in the presence of a large andience V Venugopals Cheur, E-q , 1 C.S., the District Judge, presided on the occasion The varied programme of the evening began with music by the school choir. Then the Manager, Mr. Blum, read the school report for 1911-12, which showed the progress of the school in all directions. The next item in the programme was the distribution of prizes; these were given not only for proficiency in learning but also for good conduct, for skill in music and drawing and for efficiency in outdoor games Nearly 75 students received prizes in books. Next came the Chairman's speech The last item in the programme was a dramatic performance given by the students of the VI Form. The cermony ended with "God Bave the King "

A Pitsadistribution—It was a plasmi function which was performed on the 3rd instant by function which was performed on the 3rd instant by Mr LT Harris IF. (O.S. the District Collector, to constrain with the distribution of prizes to the accessful popils of the O B. M. School, Visugation of the standard prizes of the standard popular of the standard prizes of the st

The preceedings began with the hymn' Praise to God' sung melodionaly by young boys and girls and is was followed by a prayer by the Rev. G. E. Sell. The farce excited roars of lambher and the recitation of 'speak gently' by Miss M. Janakamma was much appreciated by the andience. The Christman melodion of the control of

mas Tree which was exhibited on the stage, arranged for the occasion, was of such fine and exquisite construction that it was a delight to look at it.

Mr. D Liveiras, the Principal, ceed out the more important portions of the Report for 1911-1912, which bore testimony to the excellent work done by the institution during the sear. The Chairman theu made an interesting speech, on "The Real Object of Education".

Mr A. Surganarayana Rao proposed a hearty rote of thanks to the Chair The National Anthem was nest aung and the meeting dispersed.

Educational Grant - The Government has sanctioned Rs 18,650 as grant towards constructing a building for the B. G. M High School at Udipl.

Kultaial Stedents' Association.—The 2nd association, Challesia, was calebrated within the Association, Kultaial, was calebrated within the Association, Kultaial, was calebrated within the Association of the Association of

The Arts College, Rajahmundry .- The yearly dramatic performance of the atudents of the Arta College came off recently when they enacted Shakeepeare's 'Hamlet' in the Hindu Theatrical Hall The performance commenced at 8 r M , before a full house consisting of all educated people-students and gentlemen-of Rajshmundry. The audience was spell bound all through the performance and the chief tragic situations and the thoughtful and vigorous soldloquies of Ramlet were appreciated in profound elence. No paths stem to have been spared in the way of appropriate action, delivery and scenic arrangements and the performance was of uniform excellence from beginning to end. An ex student of the college, Mr. J. Ganganne, An or student in the context, art of the land and Ring Lear on provides occasions, played the nort of Hamlet and It was a perfect success. The King, Ophelia and Polonius were also very well represented. The performance as a whole is sa unqualified success and the credit is mainly due to Mr. O J. Couldrey, Principal of the College, who always evinces personal interest in promoting such bealthy activities of college life.

Admission of students in Saidapet College— The Government of Madras have approved the proposal of the Director of Public Instruction to delegate to the Principal of the Teschery College has power under Roles 113 121 and 125 of the Marias Educational Roles, so far as that Institution is concerned, to permit late admissions of students, to saction their discharge from the College and to great additional leave without stipseds to them terpercively. They also accept the recommendation for the temperature of the control o

Elementary Education -The Government bave approved the proposal of the Director of Public

Instruction for the distribution of a sam of Rs

80 156 to certain Taluk Boards and Municipalities

to meet the cost of the enhancement of the pay of

teachers in Elementary Schools Cannanore Manicipality gets Rs 336 Tellicherry Rs 192 Galcut Rs 240 Falphat Rs 228, Cochin Rs 48 Magalore Rs 110 the Tellicherry Taluk Baard gets Rs 816 Wynned Rs 192 (falsent Rs 312 Melapouram Rs 744 Pelghat Re 672, Mangalore Rs 974 Coondapur Rs 1042 and Pottor Re 890 The pay of trained and approved teachers is raised to a minimum of Rs 16 A Popular Teacher -On Saturday, the 4th in stant, the members of the Secondary behool Teach ers' Association Mayavaram, entertained Mr G Brinivasa Airer Ba, LT Assistant Municipal High School Mayayaram, on the eye of his departure to Tronevelly as Lecturer in History in the Hindu College MR Ry K Seshu Arrar BA 1 T. Headmaster and President of the Association was At Home to the memb re for the day After break fast in the President's bouse the members sesem bled in the High School at 10 ax A very inter eating programme of music mairly contributed by the members was gone through Some of the members spoke in appreciable terms of the very amisble social qualities of the guest of the day The President in a short speech referred in very high terms to the able work of Mr Alyar and said the school was losing a very good and popular teacher It was then unanimously resolved to place on record at a excellent services rendered by Mr Aivar in versous capacities and to wish tim long life and prosperity, in his new sphere Mr Airar though overpowered with feel ogs made a squable reply The members then had a sumpto

one dinner as the President shouse. In the evening the students part and present of Mr Aiger gave

him an entertainment in the school haff After

light refreshments an address was presented to him at a numerously attended meeting with Mr. D.

Valdyanatha D kahitar Ba, BL, Figh Court Vakif and Stanicipal Councillor in the Chair Mr Airar

rose amidst dealening cheers, it anked the students in suitable terms and gara them pieces of whole-

some advice. The meeting came to a close with

three hearty cheers for the long life and prosperity

of Mr Alyar Mr O Srimrasa Aigar a pepatarut

was well evidenced by a large number of students and some of his collegues including the Headmaster assembling at the Railway Station platform at 5 30 FM, to see him off

CALCUTTA

Hew Year Honours on Educationists—In the educational circles no two honours among the New Year's Honours list will be more widely appreciated than the kneighthoods conferred on Dr Francis Darwin and Mr Tarkouth Palit. Dr Darwin is a scenariat of no ordinary repression and his friends estimated to ordinary repression and his friends abundances to himself and of meridiness to the world alrige. The recent numbiness do shared to have been appropriately between on him readers and it can be pauly said that the honour could have been appropriately between the kingle-body and the present of the said higher throat and that have been appropriately between the kingle-body and the present of the said higher throat and that he can be presented to see the present of the pres

Anada Mohan College Mymentingh—With reference to the raising of the Anada Mohan College to the dries grade states the President, College Concelled Concelled

The news hes given great satisfaction to the local public who hope that the monificence of some liberal hearted /amindars of Myroenamph will soon enable the College Courcil to fulfill the condition mentioned in the teleram. The public carnesting wish that the A M College be raised to the first-order state from the next state.

grade status from the next session

Post Graduate Research Scholarship 1912.

I Two Post graduate Research scholarship of the monthly value of Rs 100 each, and tenable for a maximum person of three peers but in the first instance for one year only, will be awarded early

this year.

2. No cand data will be considered who has not parsed the M. A., the M. Bo., the M. D., the D. L. or her M. Base in Franciscino Termination of the Laborata University in 100, 110 or 1121. No head of the Laborata University in 100, 110 or 1121.

In the Management of the Management above that he has a capacity for or that I research or who is not a head for suffered these franciscino of the Management of the Mana

2. One of the sche arabigs will be awarded to a cand date who proposes to carry on original research in some erientife subject, such as Astaral and Fry cal Briscoe, Chemistry, Mathematical Science attempted and are in progress. As for atimulation of private dibry, we are sold that the earls of graine later in adjustment in adjustment of the provided in the fiducion Code has brought in the volume of all given to the private schools being 21 per eco. It is stated by Government that, with a few secupion, manager of private achools tried to the best of their shiftly to work up to the conditions land down there.

Foreign Plotes.

GREAT BRITAIN.

Advisors for Indian Students.—When the post of Secretary for Indian Students was created the Secretary of State decided to ask the co-operation the University authorities in each provincial

where Indiana study, in the appointment of I advisers The Secretary of State, in comaltation with the Universities concerned, has now roads the following appointments, with effect from January lett.—

Cambridge—Mr E. A. Benians, Fellow and Totor of Sr John's College, and recently holder of an A. K. travelling scholarship

A. K. travelling scholarship Oxford-Mr Steuben Montaga Burrows, son of the late Professor Montaga Barrows, and sometime member of the Civil Service in Ceylon.

Manchester—At the School of Technology, Mr. Dulanthy; at Owen's College, Mr. Gilbert

These officers and others to be appointed at other centres will make at their dary to know and help the Indias acudents at their respective Universities, to give them information and assistance, and to act as guardians to State scholars and to other students it requested to do so by the parents.

A forward Training College—The new Training College for Teachers at Seckett's Park, Lond, is deached at the most complete education institution of inst type 12 Europe. The backlong institution of inst type 12 Europe The backlong institution of institution of the type 12 Europe The backlong of the second flow epoch upon which will asked the second the second through the se

A "Public Health Series"—The Syndics of the Combridge University Press are about to inaugurate a Public Hysith Series of text-books, which ought

to be of contiderable value to Municipal authorities as well as to readers of a more strictly professional order. Such subjects as sanitary law, fever administration, officense tenders, and the chemical moistration, officense tenders, and the chemical profess fastion, and books of this kind have an obvious appeal to Monicipal enclosers, architects, school teachers and sanitary efficers. The general Educars with D. C. S. Graban-Naith, University Parris, University Lecturer in Chemistry and Physics.

Westfield College -Miss Constance L. Maynard, Mustress of Westheld College, will resign her post at the end of the summer term, 1913 Miss Maynard will then have held her present position for 31 years. Her educational experience covers the whole period since the movement for the higher education of women was first mitiated. She entered Girton in its earliest days, and was one of the first two women students to take the Moral Science Tripos. She taught for a short time at the Ladies' College, Cheltenbam, and then joined her friend, Miss Lumsden, LLD, at St. Leonard's School, St. Andrews Mas Maynard had already conceived the idea of a resident college for women preparing for the examinations of the University of London which should be founded on a definitely Christian basis, and in 1882 this idea was realized by the foundation of Westfield College by Mes Dudin Brown, Miss Maynard being appointed the first Principal In 1902 the college was admitted as a school of the University of London in the Faculty of Arts.

Mus Maynard's successor has not yet been ap-

Education in Edinburgh: Annual Report -The annual report states that during the past year the total number of matriculated students (including 572 women) was 3,404. Of these, 1,259 (including 525 women) were enrolled in the Faculty of Arts, 466 (including 25 women) in the Faculty of Science, 54 (including one woman) in the Faculty of Divinity, 277 in the Faculty of Law, 1,330 (including six women) in the Faculty of Medicine, and 18 (including 15 women) to the Faculty of Music. The numbers in the Faculties of Arts and Medicine show a small reduction, but the number of students in the Faculty of Science exceeds by 40 that for 1911, and by 84 that for 1910, this being the highest number ever reached in that faculty. Of the students of medicion, 591, or over 44 per cents, belonged 45 Section 2010. belonged to Scotland; 228, or over 17 per cent-wers from England and Wales; 95 from Ireland; 102 from India; 265, or 20 per cent, from British Colonies; and 49 from foreign countries. These figures show that the proportion of non-Scottish students of medicine is well maintained. Besides these matriculated students, 67 non-matriculate students, have paid the 5s. entrance fee, of whom 59 were women, chiefly attending music and German

literature classes The number of women attending extra academical lectures, with a view to graduation in medicine in the University, was 69.

The following degrees were conferred during 1912—M.A. 252, D Latt., I, B Sc, 71 (the highest number ever reached), D Sc. 4, B D. 6, LL B 20, M B, C M, 2, M B, Ch B, 20t. M D, 55, Mas B.2

The General Council of the University now

numbers 11,941.

The diploma in tropical medicine and hygiene was conferred on one candidate, the diploma in psychi

atey on four candidates. The total namest value of the University Fellow ships, acholarships, burstates, and prizes now amounts to about £19,400, rss., in the Faculty of Artis, £10,300, Stemen, £1,100, Dirustiy, £2,010, Law, £570, Michicae, £5,250, and Massa, £10,500, A number of burssates are in the gift of private pairons, but the great majority of the University bursaries, prizes, £6, are awarded by the Genatius street county of \$0.000, the county of the Company of the county of \$0.000, the \$1.000, the county of the county of the great research.

The Science Museum. An Advisory Council — The President of the Board of Education has appointed an Advisory Council for the Science Museum

The Council will be asked to advise the Board on questions of principle and policy arising from time to time and to make an annual report on their proceedings to the Board, together with any observations on the condition and needs of the Museum

which they may think fit to make
The following will be the first members of the
Council —

Sie Hagh Bell, Bi (Chairman) bun DOLL Lib J. Mr. S. Elliott Copper C.B., Dr. J.J. Bebbes, F.R.S., Mr. W Daddell, F.R.S., Mr. E. B. Ellington, M.I.O.E., Sir Marries FitzMarares C.M.G., Sir Archbold Getkie, K.O.B., F.R.S., S. G.S., Dr. R. C. Glimborok O.B., F.R.S., S. Hife Meogh, K.O.B. Lib D., M.D., F.R.C.S. I. &c., the Bight Hon. Sir William Market, Lib D., Sir John Murray, K.O.B., F.R.S., Lib D., Dec. M.D., F.R.D., F.R.S., F.O.S., C.B., Lib D., Dec. M.D., F.R.D., F.R.S., F.O.S., Lib D., D. C., M. G. B., F.R.S., F.C.S., Lib D., D. C. M. G. B., F.R.S., F.C.S., Lib D., D. C. M. G. B., F.R.S., F.C.S., Lib D., D. C. M. G. B., F.R.S., F.C.S., Lib D., D. C. M. G. Sir William Market, M. G. B., F.R.S., Lib D., D. C. M. G. Sir William M. Watte, K. C.B., F.R.S., Lib D., P.R.S., Lib

The Secretary will be Captain H G. Lyons, FRS, of the Science Museum

A Comprehensive History of India by the Cambridge University Press -The Syndics of the Cambridge University Press propose to publish a Cambridge Shareretty cress propose to publish a comprehense History of India, from the earliest times to the present day, on the model of the Cambridge Modern History The work, as projected, will be completed in aix volumes of about air hundred pages, two volumes being devoted to each of the main periods-Ancient India, Muhammadan India, and British India-under the editorship, respectively of Professor E. J. Rapson, Lieut Col. T. Wolseley Haig, I S C. and Sir Theodore Morison, K C.L.E. The various chapters in these sections will be entrusted to scholars who have made a special study of the period or subject and the Syndics hope, in this way, to produce a history of the nations of India, past and present, which shall take its place as the standard work I bey are indebted to the generosity of Sir Dorab Tata for the means of providing additional maps and illustrations, which will add greatly to the value and interest of the volumes.

THE OXFORD GEOGRAPHIES

Vol. 111

THE SENIOR GEOGRAPHY

BY

A. J. HERBERTSON, M.A. (Oxox.), Ph.D. (Freische I.B.)

Reader in Geography in the University of Oxford

AND

F. D HERBERTSON, B A. (LOND.) Second Edition.

Second Edition

Price Re. 1-8-0.

The Educational Review-

The Report on the Progress of Education in the Panjab during the Panjab Quinquinquennium ending

1911-12 is an interesting record of steady progress. The pupils receiving Primary education have increased by 27 p. c., Secondary 46 p. c., and Collegiste 66 p. c. Correspondingly the expenditure under each head has grown by 37 p. c., 50 n. c. and 50 p. c. respectively. An Agricultural College was opened in 1909, but it has not yet attracted many pupils. The Government Engineering School has been remodelled. Board schools have fixed the minimum pay of a head teacher of village primary achools at Rs. 15 per measem and of an assistant at Rs. 12. This is gratifying. The present day fad of religious instruction-s cry which old moral decrepits so frequently raisewhich men with pro-government views expect to develop lovalty, but which is more ant to develop the Pandit or Moulvie cast of mind and will, if anything, promote disloyalty, is looked on with favour by the Lieutenant-Governor, who promises to further the erection of depominational hostels. But we agree with Mr. Godley, Director of Public Instruction of the Panish in reparding "the definite merit of associating pupils of all classes and creeds on the same plane and thus promoting mutual forbearance and tolerance" and mutual understanding and wearing off of angles is moral education in the best sense and the only moral or religious education that ought to be attempted in schools. Outside schools, there is religious education ad nauseam. The average Hindu or Muhammadan household is saturated, nav oppressed, with the heaviest religious at-

mosphere imaginable. Let boys have some respituat least in schools! Indeed, in this very report we are now considering, para, 7 approves of religious education, but para, 10 denlores " the tendency on the part of certain private institutions... to foster sectarian rivalries." In England where religion is less fluid than in India, where on the whole social life is freer from pseudo-religious, convention than here, where public education has been organized for a much longer period and where general enlightenment is much more widely spread than in this country, the Education Act evoked such savage passion and such ridiculous excesses of demonstration but recently. Yet people here light-heartedly propose to wreck the little education that is imparted in India by floating it on the turbulent sea of religious discussion.

Says Mr. Godley, "the Panjab University continues to maintain two teaching colleges—the Oriental and Law Colleges."

En passant, we thank

Mr. Godley for the phrase "teaching college " and hone that in the other colleges, there is no teaching but letting the brains of pupils grow " of its own accord." With regard to the former of these institutions, we learn, "the Oriental College embodies the intentions of the original promoters of a University scheme for the Panjab, and as such is an interesting survival; it is lacking, however, in vitality, and is chiefly kept alive by the aid of scholarships and stipends. The College has three functions. It prepares students for the various Oriental title examinations of the University and also for the Oriental degrees of B. O. L. and M. O. L. which were supposed to represent the attainJan. 1913.1

ment of European learning through the medium of the Vernacular languages, while it also undertakes the instruction of the arts students of the Government College in the classical languages of the East Owing to the failure of the Oriental degree courses as formerly constituted to attract candidates. the regulations were changed during the quinquennium so as to make these courses include a knowledge of English combined with Indian History and Oriental languages The result has not been encouraging, only four students having obtained the degree of B O L during the period and one the degree of M O L and it is fairly evident that the revised courses are hybrids which do not at present appeal to students either of the old or the new type" In Madras we have just adopted these "hybrids" in our University and further burdened them with impossible courses of study in Oriental and European learning, for the University has published a list of books-current and out of print and not yet in print both up todate and hopelessly out of date-and withal so long, that none but an immortal can negotiate it, as part of the course for these title examinations Yet with this pretentions syllabus the Madras University is so bankrupt of Sanskrit scholarship that it cannot devise correct names for these titles! One title that it proposes to award is Nyayas'iromani-the crest lewel of logic How can a man be a lewel of logic? He can be a lewel among logicians-Naiyāyikas iromani, otherwise be is no more a man but a book and this is the reward which the University gives for an impossibly long course of study !

Mr Godley discusses the evils of examinations dominating school The Matricula. work, a subject on which

tion Examination has been written a sensible note, printed in the Appendix to the report by Mr Wyatt, Inspector of Schools Mr Godley thinks the criticisms of this examination "much exaggerated" He consoles himself with saying that "a teacher who has higher ideals than pass percentages can both educate and pass his pupils," this remark merely blinks the fact that the atmosphere of examination necessarily kills out the "bigher ideals" Mr Godley apparently regards the United Provinces scheme of roving examiners with qualified approval, but, curious to say, does not seem to have heard of the Madras scheme of the Secondary School Leaving Certificate in which the domination of the external examiner on school work has been attempted to be considerably reduced, though not extrepated An Inspector of Schools of the same Province, Mr Crosse is better informed with regard to what is going on in other provinces. Mr Crosse is a follower of the reformed method of teaching English, ordinarily called "the Direct Method," on which he has contributed a short note and which he has introduced in the Paniab He knows about the introduction of the method in Bombay, Bengal and Madras, but he is wrong in thinking that it was started in Madras in 1908 Nearly a decade before that date it was used in certain schools. He refers to the books on the method by Mr Nelson Frazer of Bombay, Mr Tipping of Bengal and Messra Yates and Scinivas Ivengar of Madras, as also to the heatating, half-hearted attempt to reform Foglish teaching advocated by Mr Wren of Bombay Mr Crosse then describes the experiments be

has conducted in the method and closes with a remark, which we quite agree with, "I believe that with this method there will be a steady growth in the command of the English language, that with this the maio difficulties of our Anglo-Vernacular pupils will disappear, and that we shall get a much more intelligent and better educated boy by the time he leaves the fifth high class than is at present the case."

Beside Madras, the only other part of the
The Secondary
British Empire that has
devised a satisfactory
Certificate in School-Leaving Certificate

Scotland. scheme is Scotland. Au account of it was furnished to the Education Science Section of the British Association at Dandee in September 1912 by Mr. J. Strong. In an ideal scheme the danger of premature specialization should be prevented by the inclusion of humanistic and mathematical or scientific studies in the compulsory portion of the scheme. The Leaving Certificate while giving the right of entry to a University. should restrict the pupil to the particular course for which he has shown fitness by his work in the optional portion. Preparation for later professional studies or entering into public service or business should also be provided for by correlating their requirements with the school work. The Scotch scheme fairly meets these requirements of the ideal scheme. Secondary education in Scotland begins at the age of eleven or twelve and extends over five or six years-an "intermediate" course of three years and a Leaving Certificate course of two or three years. The Intermediate course, which is the counterpart of our I, II and III Forms course, includes seven subjects: English, History, Geography,

Mathematics, one language other than English, Science, Drawing. Except for Science, all these subjects are taught in the lower forms of our Secondary schools. The Leaving Certificate course includes at least four subjects, three of which must be English (including History), one language other than English, and Mathematics or Science. Here the Scotch scheme is much superior to ours, because our scheme is burdened with 2 " A" subjects, English, Vernacular Composition and Elementary Mathematics : 4" B" subjects Indian History, Geography, Drawing, Elementary Science, all practically compulsory, and at least two others besides. This loading of subjects is a reminiscence of the Matriculation examination. A good three years' course in the I, II and III in the A and B subjects all (except English) conducted in the Vernaculars and taught not to enable the pupil to pass a written examination but really well, and that preceded by a four years' course in the lower standards-i.e. a seven years' study of the pupil's Vernscular, Geography, (Indian) History, Elementary Science, Drawing, Elementary Mathematics ought to constitute a thoroughly satisfactory course for the average child. English alone and perhaps Vernacular composition (in view of the fact that a modern prose style has to be evolved in this country in the future by these pupils when they become men) ought alone to form the compulsory portion of the Leaving Certificate course. To return to the Scotch scheme, the "Intermediate" certificate is given at the end of the first course and the leaving certificate the other. Here, again, we may very well copy from Scotland. Now that our Leaving Certificate has proved thoroughly popular, it is high time the work of the I, II and III Forms be taken on hand and

organized at that of the three higher ones . This will enable the B subjects and some of the A subjects to be shifted down. One other point we may borrow from Scotland The papers are set in two standards and excellence in one subject may compensate for deficiency in another "The Intermediate certificate indicates the satisfactory completion of a well balanced course of general education, suitable for those who leave school at the age of fifteen or sixteen It also acts as a passnort to certain technical institutions and continuation schools. The standard of examination practically precludes the study of more than two foreign languages in the course Leaving certificate courses may be classified as general, linguistic, mathematical, scientific, artistic, or musical There is no difficulty in selecting a group of subjects which meets the entrance requirements of Universities"

From the account of the Scotch Leaving Certificate given above, it

The so called dangers of early specialization ontside critics and some old fashioned teachers too.

in season and out of season, raise the cry that our partial specialization begins too early under our S L C, scheme, in Scotland the corresponding course is entirely a special ized scheme, the general education stopping at what corresponds to our III Form, two or three years before the highest school class is reached "Some Notes of Thought on Education" by Mr A E. Haynes of the University of Minneasta in School Science and Mathematics, advocates the same system whole system of education tends to be extensive than to be intensive, too many subjects are taken to enable the pupil to be thorough in Such a method produces distraction RDY

rather than abstraction, confesson instead of order, dimness instead of clearness, and makes the pupils more like a partot than a real student "Going through books, does not necessarily educate one, any more than walking through beautiful gardens make one a botainst It is good, wholesome food, throughly digested and ass misted, that nourishes and boilds the body" and not that which is crammed down one's threat and aponted forth to the examiner

It is scarcely known to those that are not

Moving continents on which we live are not absolutely fixed

on their foundation but are subject to motion. Thus though there has been such a great rapprochement between the American people and the people of Great Britain and Ireland within the last quarter of a century, the countries themselves have literally moved away from each other. Accurate determinations of the distance between Greenwich (England) and Cambridge (America) have brought to light the fact that England and America have receded from each other by 90 metres in the course of 26 years. We learn also from the Scientific American Supplement that longr observat one show that Greenland and Europe have to the last 84 years gone spart from each other by 940 metres. This is due to horizontal displacements Vertical displacements of continents also take place constantly. A heavy body pressing a continent makes it sink down as a cork floating on water sinks when a weight is placed on it. These displacements are believed to be due to the weight of ice which accumulates on continents and produces the motions which cause these changes of distance

It makes one sigh with undisquised envy

Rice Rice Institute, Houston, Texas. stitute in the United States which starts with an endowment of 10 million dollars, "with the foremost educators in the [American] nation siding in planning the future : with picked men for administrative offices and faculty: and with a vigorous, growing country in which to prosper and wield its influence." The proposed President. Dr. Lovett, travelled all over the world to learn about other institutions of higher learning. 300 acres of land form the site and the plan of the building is one "that would embody in succeeding years the purposes of the Institute. The Institute will be open to both young men and young women. There will be no charge for tuition and no fees, "For the present it is proposed to assign no upper limit to the educational endeavour of the new institution. " so that besides collegiate work, post-graduate work will also be provided for. The lower limit will be the entrance requirements of the more Conservative American Universities, The

The virtues of an English education bave

name of the institution alone is plebeian.

As Zivn education. The ordinace given before
the middance given before
sion that it is worth while to note what such
a great anthority as Mgr. R. H. Benon says
about it in the columns of the excellent new
iterary weekly periodical, Everyman. According to him the Etonians leave Eton
with a stamp upon them, that no other dares
to imitate, and of which they themselves are
never sahamed; they leave unbuttoored always
the lowest button of their waistroat, and

count themselves cadets, at least, of the noblest house in the world. But the education she gives them is deplorable." Mgr. Benson won an Eton scholarship for proficiency in Latin and Mathematics : he then went to Etop. and left it four years later, a hater of the classics, a fumbler over a sum in simple addition, "a disappointment to every one including myself;" " yet I am not wholly without intelligence...... There are to-day, I suppose, still left two subjects which I can study without reluctance-history and English; since in neither of these two branches of knowledes can I semember a single lesson ever being given tome while I was at school." This apparently is a special virtue of Eton and not of schools generally in England, For Mgr. Benson in summing up his account, explains that the cause of the failure of Eton is due to want of specialization, the neglect of the study of the individual temperament of the pupil, not teaching him what he is constitutionally fit to learn, but to force all to master "minute details of grammarians' analyses of the Latin and Greek languages at certain limited periods of their development." Let Madras educationists note this, for this is exactly what patriotic advocates of the cause of the Pandits and the Tamil and Telugu Academies hold out for. Mgr. Benson further complains that " what is taught is taught drearily " at Eton and "the average Eton boy leaves Eton entirely uneducated." The same has been the case almost up to to-day with us, for dreary drilling in grammatical minutias, mechanical drill in Euclidean deduction, and parrot-like memorization of isolated historical, geographical and scientific facts was all that was attempted in all schools and even now is all that is attempted in most schools.

Mr. Maurice Hewlett on Boarding Schools

Hewlett has written an equally scathing condemnation of English Board ing Schools in the Decem-

ber number of the English Review 'I believe," he says, "that when I went to my great school I had the makings of an interesting lad in me , but I declare upon my conscience that it was that place only which checked the promise for ten years or more, and might have withered it all together" The blighting influence of our own schools on promising lads is amply illustrated by the fact that the output of literary activity in India is so poor The only remedy is the adoption of the principle of the Montessori method, which is now attracting so much attention in England and which we referred to in our editorial notes last month. It is this, that nothing can be more absurd than making every boy go through the same drill in the same subjects which the intelligent outsider who knows nothing of educa tion and less of child psychology regards as constituting the minimum of knowledge with which every boy's mind should be stocked, but as Hewlett says, "the single aim of the master should be to give every boy in his charge some same interest which be can pursue to the death, as a terrier chases a smell, in and out, up and down, with every nerve, bent and quivering" This and this alone develops untell gence and constitutes education But with our cast iron syllabuses schemes of examination, and with our Chinese ideal, of literary examinations guarding the doors of office, and with our new pseudodemocratic ideal according to which a person who knows nothing of a question but who can shout most loudly is the most qualified to give a pronouncement on it, is there any room for

modera ideals to be understood, much less to be adopted? Hewlett condemns "drill in school, laissez faire out of it?" In the case of the Indian school boy, drill in school and drill at home, allows no scope for the fair flawer of the soul to bloom out

Several books published during the last iwo or three years have given An Anglo Indian poet John Leyden the he to the charge of barrenness usually made against the education given by the Madras University , and " An Anglo-Indian poet John Leyden" by Mr P Seshadri, whom we proudly claim as one of our most valued contributors is another glorious refutation of the charge John Leyden was a priest, a doctor a poet a linguist a judge and a soldier of the first decade of the nineteenth century, who served in India China and Java for an all too short period of eight years and then died Mr P Seshadri has collected and published his Indian poems and letters and furnished them with a learned introduction We are glad to notice that Mr Seshadri is quite up-to-date in his methods of literary criticism but we cannot congratulate him on his remark that the members of an unfortunate Indian caste are 'probably incapable of feeling the emotion of Love," in his notice of Leyden's Song of a Telinga Dancing Girl for we believe Layden showed a truer discernment of human nature and was not influenced by Pharisasam, All other critical remarks of Mr Seshadri are felicitous and illuminating and calculated to help the reader to appreciate the literary ments of Levden's writings and the noble characteristics of this versatile Scotchman who in talking to Brah m ns "insisted on claiming divine descent for bimself," being a descendant of "Adima" and " Iva." children of Manu Syavambhu

The Indian poems of Leyden as well as his letters descriptive of Indian life cannot but be of absorbing interest to Indian resders. It is a jify that Leglish literature, dealing with Indian matters, though it consists but of scrape, is sedulously avoided by the University when it prescribes books for study in Indian schools and colleges. Stories and poems dealing with far off scenes and modes of life absolutely unfamiliar to master and punil alike, accounts of mediaval toppneys, life in monasteries in hy-gone ages in Central Europe. Scotch border-raids, the loves of Erangeline and Dora and other maidens that the Hindu pupil cannot feel much interest in are prescribed year after year. It would seem that nothing that can touch the Indian imagination is fit for Indian schools. The people that prescribe books consult their own tastes and whatever appeals to them or rather appealed to them when they were children ronning about on English meadows or playing hide-andseek in ruiped castles of Norman Barons are naturally set for study. And afterwards meanle eav that the study of English literature bas not had any appreciable influence on the Indian imagination. First rouse the imagination by appesling to it through local colour, by making numils read about what is familiar to them. ca. Layden's poems and letters. Heber's Indian poems, Indian tales, of which certainly there are a few, written in good English with a literary flavour : the imagination, once developed, can book itself on to the unfamiliar and comprehend other English literature. Leyden's description of his landing at Madras, his jannis in Mysore illuminated by his rollicking humour, form excellent reading. We have only to add that the pet-up of the book is excellent and reflects great credit upon the premier printers of Mount Road, Messrs, Higginhotham & Co.

Indispensable for Students of History and Economics.

INDIAN MONETARY PROBLEMS

By S. K. SARMA, B.A.

SOME OFINIONS.

Mr. D. E. Wachs writes:—"I have carefully gone shrough pays after page aron near to assend tenunch but compatible you on your mast creditable production. You hook is a remarkable one and vision that the production is a remarkable one and vision that the production is a remarkable one and vision that the production of the contract of the production of this character from any Indian. Your lock style and power of expression makes the back is intelligible. The quotations are sha and telling and your own criticism is on the whole sound this book ought to be in the hand of every educated indian for it contains an admirable presentment of the whole product of industrial productions.

The "Capital" writes:—"Book of considerable merit flinging out a bold challenge ... "Book of considerable merit flinging out a bold challenge ... is worth reading by publicists like Mr. Webb, who are inclined to take a little too much for granted when

foisting their fads on the public."

The "Indian Daily News" writes;—" It is extremely interesting to find that Indians are aking to interest themselves in the sourceor matter and especially 10 find a work the 'Indian Moratay Problems' of Mr. S. K. Sarus. * * Mr. Sarus. is, we are gird to say, a bimetallist, one of the persons who according to the gold boxe of Lumbard Street cought not to be at large."

The 'Essder' writter,—'The case against the proposal to introduce a gold carrency as well as a real gold standard * * * could not have been put more strongly, elaborately and ship than it has been presented by Mr. S. K. Sarma in his publication on the subject * * Mr. Sarma has made a been proposed by the subject of the subject of the standard proposal as subship material hereing non it. Be commended the vigorous split of a tristed of pureralist."

The "Rindu" writes:—"The author has done a useful service to students of the subject is summarising in a systematic manner the history of this country's monetary policy from the earliest times of British rule."

&c. &c. &c. &c. &c.

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No 2

THE SIMPLIFIED SPELING SOSIETI

The 'Seemassiological' Argyument agenst Spoling Reform

BI MARK HUNTER, M A

Cooral Secretarior the S Indias Branch or the S S S IT has been unjd bi literar; pursons, hard poot tu it to fiend basis in reezon for a pyuril sentimental preferens, that etimological spelings ar ov survis, not meerli becauz that teach (so it a vanili contended) the historior wurds, bat becauz bi so duing, that help us tu yuez wurdz corectli, that is, with dynergard in thair tru and orijinal meeting Such spelings, it iz argyud, tend tu saiv the langwij from being confaminated bi solesziniz and the vulgeritiz or slipshod ignorans.

It day not, ov cors, cour tu theex critics that, if that art u be consistent, that aulies and to become speling reformers, ov a sort, and advocat changes which shood enable or speling to dischar; this supered fonceshon more satisfactorili and efishentli than it due at prezent. If their argument haz en vahidit that at to recwer the speling ov and Eoglish words, or at leest or auten spessified classes ov them, to be taken mor or les directle out or Greek, Latio, French and Anglo-Saxon dischounts:

Thair iz, ov cors, a histori-or pre-histori -ov the sound and meeningz ov wurdz ling far behiend the dicehonari speling Eeven aafter the pre historic preriod, thair ar men: stailez in the histori ov wordz, in form. sound and meening, and their seems no reezon whi eni particyular staij, uther than the lasst, shood be sincld out az sneshall syntabl for speling purpozez in preferens to the otherz But ov such elementary consideraishouz we can scairsh ecspect the etimoloj cal speler tu taic acount We mai, houever, inviet him to test hiz argyument in the liet ov actyon! fact . to egzamin hou far changez in meening hav been or can be chect and controlld by arested or arcsic orthografi, and, on the uther hand, hou far fonetio chainjez in speling hav been responsibl for chargez in meening, and whether chargez so efected hav been disadvantages or the revurs * We shood then be in a pozishon tu prepair sum sort ov balans sheet-profit bi et molorical speling, so much los and wasstej, so much We, fonetic speli g reformerz,

[•] Or core the Engl sh lengw 1 z granth enricht bit the possible on wards historical or feedback orlyin but at latter staye differentialisted in protoneration and meeting e.g., blass and bits propation and facilities and digniti, etc. etc. In 1 zs important that speling shood help to observe these di tucchora and not in the styopid etimoloc all wall use to obliterat them.

nos preti wel the stait ov the acoust on the debit sied; and unles the asets ar veri much mor considerabl than haz so far been demonstraited, we ar prepaird to sai that the condishon ov the etimological form is wun ov complect and iretreevabl bancruptei. A fyn asets hay been paraided bi wai ov saampl the Greek-Latin wurdz spelt with 'ph' (= f), and the French loen-word 'lieutenant.' If the rest hav no graiter valvu it mai confidentli be aserted that the hoel stor iz hardli worth scraping.

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Let us consider the speling 'lieutenant,' and the ph-wurdz. The Oxford dicshonari wil tel us that, for sum sentyuriz safter the introducation oy 'liftenant' into English, f-spelingz wer az comon az the etimolojical varieti, and their iz nothing to shoe that enibodi woz eni the wurs. Etimoloji fiensli prevaild. But what haz been the gain? If we hapen to hav no French, the speling iz meerli a puzl tu us. If we noe a litl French and a lit! Latin we can no dont. split up the ward into its component etimolojical parts, and then formvulait the eowsishon 'lieu tenant = locum tenentem plais hoelder.' But hou doz this help us tu s corect yees ov 'liftenant' in modern English ! A liftenant iz not a 'locum tenens' and a locum tenens iz not a plais hoelder.

And so with the ph-wurdz. If we hav no Greek 'ph' profits us nuthing. If we noe a litl. we can perhaps postyulait ' philos = fond. laving, anthropos = man, logos = word,' and then infur, 'philanthropist' = wan fond ov men, 'philologist' = wan fond or wardz. But this sort ov nolei iz bi itself perfectli vnesles. The indispensabl thing iz that we shood noe the speshal meening which the wurdz in cors

ov tiom hav non com to acwier. Such nolei iz to be had without the help ov etimoloji. whiel theez caipabl ov apliing etimoloji hav no sort ov vues for etimological speling. A meer nole; ov the 'derivaishon' iz just az liedli to misleed az it iz to help. Thair ar sul sorts or 'layerz ov men.' from the public benefactor tu the ordinari flort : men bay luyd wurdz in vairins waiz : Jacob Grimm in wan wai. Sur Jabesh Windbag in another. The Germanz spel the word 'philology' neerli az we du, but thai du not meen cwiet the saim thing; our sens is much morre-The Italianz, hu miet natyurali prefer the Latin speling, hav discorded it. That riet 'flantropo,' filologo,' speling, liec sensibl peepl, egzactli az thai pronous. It iz not in evidens that that hav been poot to ani ciend ov trabl in consecvens

THE REPORT OF THE DACCA UNIVERSITY COMMITTEE.

BY AN EDUCATIONIST.

T.

THE first Teaching University in India is at last within bailing distance. At Dacca will be started a group of 10 colleges and collegiste institutions with arrangements for boarding and housing the popils. So far the scheme sounds well. But when we examine its details, many undesirable features rise to rob us of the satisfaction that the first Teaching University talked of so long, is bound to give us. The final proposals embody a series of compromises between opposing interests and are not merely an honest attempt to put educational principles in practice. The Muhammadans would have no modern learning unless accompanied by boluses of mediaval monlyi-dom, preservative of faith in old-world fictions, and the Depart ment of Islamic studies will be opened to prevent modernism from liberalizing young Mussulman minds It only remains for the Hindus to clamour for a Department of Vedic studies (as Sir Garudas Banerji has already begun to do) and provision will certainly be made for teaching the Brahmin pupils the mysteries of the horse sacrifice, the Mahavrata ceremony (the Paundarika Yagam) and other holy rites, the Puranic geography and the sky lore according to the Surya Siddhanta and Bribat Jataka But Hindu sentiment has been respected in a different way, by the provision for caste colleges, the 'Brahmin' institution will be the Jagannath College where low fees will be charged and the pupils will be mainly non resident ones, who will eat undefiled food in their own sweetsmelling homes The Kshatriya institution will be the Richman's College, to be started because "the failure of colleges to attract students of the well to do classes is a very serious and far reaching defect of our edu cation system" Thus the priggery, so care fully imparted in the average rich man's home, can be intensified in the University The Daces and New colleges will be the places for the middle classes-the Vaisyaof this new caste system Nothing can be more muchievous than this over separation of class from class, sect from sect, in the University No University life is worth living in any country in the world, if the rich and the poor are not to rub shoulders, if different religions are to revolve in different orbs In India, under the present circumstances, this is a positive bane. As it is, the rich man is too full of snobbery, the Moulvie and the Brahmin too full of old world prejudice, and it is a mistaken democracy to provide for the

perpetuation of bocus-pocus because an ignorant demos demands it

TRE TECHNICAL SIDE

The technical side of the University is rather poorly conceived. There will be no Agricultural College There will be no Law College but only a Law department to prepare for the Calcutta Law degrees. this is a pity, because all Law colleges in India are not wlat they ought to be, the teaching very little and the attention paid to such teaching, almost nil, the examinations test but the memory In fact all our Law colleges and examinations are attractions which keep down as far as possible the demoniac prepossession of our voung men for the unproductive profession of the Law There is in them no study or investigation of the Science of Law, of the only part of the study that will appeal to the reason; our Law colleges are not educational institutions but B L mills It is regrettable that the only opportunity for forming a school of Indian Law is not going to be utilized Nor will there be a Medical College, but the first year's course of a medical college,which generally consists of a preliminary course of Physics, Chemistry and Botany .will be provided for in the colleges of the Dacca University This semi affiliation to the Calcutta University is another undesirable feature of the scheme If the Dacca University cannot make provision for legal or medical studies, why not leave them severely alone Half measures are bad anywhere: much more so in an institution, unique in India, a Teaching University

THE DOMINATION OF CALCUTTA IDEALS.

Throughout the scheme, the domination of the ideals of the Calcutta University is

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The Calcutta Matriculation nerceptible certificate will be accepted as the passport of admission to the Dacca University. This is the most unintelligible part of the programme. The Calcutta Matriculation is the most uusatisfactory test in India, because of the vast number of candidates that apply for the examination; and if any University can arrange for an ideal method of Matriculation. it is a localized University like the Dacca one and not one like the Calcutta or Madrass whose High schools and colleges are scattered over a vast province : vet the Dacca University proposes to hand over to Calcutta its rights of matriculating its students. A similar domination of Calcutta is percentible all along the part of the scheme dealing with the courses of studies and examinations. In only one important point will the Dacca University studies differ from the Calcutta ones and that is, in the provision for Honours studies in one subject, as in Madras, Another little speciality of Dacca will be that students of Arabic will be taught to converse in that language. This is rather curious. The Arabic of books is the language of Muhammad crystallized, Modern Arabic, that which is spoken to-day is so widely separated from that of the Ouran by twelve centuries of phonetic and semantic change that it is almost a new language; it is difficult to guess what earthly purpose is served in getting pupils to converse in this antique Arabic : why not train Hindu boys to converse in Vedic? Or is this another son to demos? We have dealt only with the defects of the scheme; all the same, we welcome it, for it is the first attempt, though a halting one, to organize a Teaching University in India. We hope, ere long, that every large city will have one for itself.

VI. ON THE TEACHING OF MATHEMATICS IN SECONDARY SCHOOLS.

(Continued from page 19, Vol. XIX).

DECIMALIZATION OF ENGLISH MONEY. (Continued.)

IN the last article I explained the process of decimalizing English money. The inverse process is also important.

If the decimal be given to 3 places : to convert £345-678 to £, s., d. The greatest possible number of 'fives' in the number formed by the first two places gives the number of shillings; the student at once gets £345, 13s; then we have left '028. Since the number forming the 2nd and 3rd places is greater than 21, the given decimal fraction gives 27q. for trial and since ir, the quantity neglected, is less than 1, the answer is £345, 13s. 61d. To convert £3 496 to £, s., d. As before £3.45 gives £3, 9s. We have £-046 left which gives 45q. for trial but the quantity neglected, i.e., ?? is greater than half, therefore the approximate answer should be £3, 9s., 11d.

If the decimal be given to 4 places or more; to convert £345-6789. As before we have £345, 13s., leaving £ 0289 and 27q. will give £-0281 and the difference is greater than £-0005, i.e., 1 q., so the answer must be £345, 13s. 7d. From this we see that if the 4th place calculated falls short of or exceeds the 4th place given by 5 or a greater number, we should increase or decrease the answer by lq. Letus consider another example : £3.4983. First we have £3, 9s. and £ 0463 gives 45q. for trial and 45q. gives £ 04687 ... which exceeds the quantity given, by £0005; hence the answer is £3, 9s. 11d.

^{*} The right of publishing these articles is reserved.

From these we arrive at the following by 4 It is to be noted that it

When the decimal is given to 3 placed divide the number formed by the 1st two places by 5, the quotient gives the number of shillings, then consider the number formed by the remainder in the 2nd place and, the number in the 3rd place as so many farthings and subtract 1q for every 24 and one for 12 and more of the remainder.

E G, £3 709, £3
1
, 15s, 49, 49 q -2 q = 47 q , £3, 15s 11 $\frac{3}{4}$ d

When the decimal is given to 4 places Write down £, s., consider the number formed with the remainder in the 2nd place and the number in the 3rd place asso many fartlings subtract one if the number is 24 or greater than 24 and 2 if it is 48 or over, then calculate the 4th digit according to the rule. If this is less or greater than the given 4th place by 5 or over, increase or decrease the number of farthings by one

E G, £7 8952

working rule -

£7, 17s, 45 — 1, 44, 44 ‡‡ 45‡, 458, calculated result exceeds given quantity by £ 0006 hence the answer is £7, 17s, 10‡d

This inverse process may be extended to find the number of farthings hence the number of peoce in a given amount in \mathcal{E}_s , d. The \mathcal{E}_s , d can be decimalized, then we have to multiply the result by 1000-40 to get the number of farthings, ϵ_s , we remove the decimal point 3 places to the right, and subtract from the 40 times the original number [Begin with the 3rd decimal place the multiplication by 4 and subtract from the 2nd decimal place in the product by 1000, both multiplication and subtraction being done in one process.] Thus we get the number of farthings and the number of pence on division

by 4 It is to be noted that it is necessary to carry the decimalization to 5 places

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E G, to reduce £35, 17s 11d to farthings and hence to pence

£35 17s 11d 85 85 83 84 4600 8515
$$d$$
 34460 q]

DECIMALIZATION OF INDIAN MONEY

Of course Indian money is not so easy to decimalize as Eoglish money The following process of decimalization I have been following in my classes and have found in generally successful First to decimalize

Now for I anna, 3 annas, etc We know that I anna ~ Re ½ - Re 0625 3 annas that I anna ~ Re ½ - Re 0625 3 annas was of making boys reduce this will be (3×½ Re) = (3×10 as) - (30 as) which is otherwise obviously = (1½ Re) = 1870 Re 8×½ must be also reduced by our Indian boys to 1½+½ = 1½ and (Re 3×½) = Re *1875 5 milarly

The reductions give practice in both the methods The 'annas' method finds favour with our modern boys, it may be surprising to many teachers when I tell them that our boys of the VI Form find it difficult to multiply the fraction; it mentally by a number of 2 digits such as 13, 15, etc. The class should be well drilled in the conversion of annas its decimals of a rupee after the boys have

[FEB. 1913.

grasped the process of reduction. They should become thoroughly familiar with the figures. The boys should know that with regard to eighths 25 follows 1 and 6, 75 follows 3 and 8 and that with regard to eighths 875 follows 1 and 6; 125, 8 and 8; 625, 0 and 5; 375, 4 and 9. At least familiarity with theeighths should be thorough with our Indian boys dealing with Indian money. Such answers as '825, '675 should be considered absord.

Then to decimalize 'pies.' Now if the number of pies is multiplied by 5 then each unit in this number is yle of a rupes and bears the same ratho to it as a farthing does to a pound, and the rule for the decimalization of English money applies, i.e., we multiply the number of pies by 5, consider the product as on many farthings and express it as the decimal of a pound and the same decimal fraction expresses the given number of pies as the decimal of a rupes.

E. G. to decimalize 7 pies. 7x5, 35; Re. 03514, Re. 0364.

To decimalize 91 pies.

To decimalize Re. 75, 13 as, 10\frac{1}{2} pies. Rs. 75.8125 (*136 as., *8\frac{1}{2}) *0545 (*052\frac{1}{2}\frac{52\frac{1}{2}}{124})

The inverse process of reducing a given decimal of a rupee to Re., as., ps. is somewhat

difficult. The difficulty lies in taking away from the decimals the portion equal to the number of annas. The following hints may supply an easy way to find out the number of annas. If the 1st digit is, say 8, then 8125 corresponding to 13 as, must be subtracted. At the sight of 8,125 must follow from familiarity with the figures, and 13 will be suggested from the fact that $8 \times 16 = 128$ and the next multiple of 10 is 130, hence 13. Next suppose the first digit is 6, the decimal to be subtracted is either 625 or 6875 and the annas corresponding are 10 or 11 since 6×16 =96, and the multiples of 10 may be 100 or 110. The remainder after subtraction is to be treated in the same way as the remainder, after finding the number of shillings, is treated in the case of English money, only we divide by 5 to find the number of pies. A few examples will make this clear.

To reduce Rs. 37.476 to Rs., as., ps.

To reduce Rs. 4.9236 to Rs., as., ps.

To find correct to a pie the dividend on Rs. 1567, 14 as. 6 ps. at 9 as. 4½ ps. in the rupee.

A book seller sends for books worth £17, 13s 9d. He is allowed a discount of \$31 \(^1\)_0. The expenses amount to 10 \(^1\)_0 of the gross cost price. What should he pay in Indian money for the books if 1 Re = 1s 4\dagged d.?

Gross C P. = £17 13s. 9d. = 17 6875 Expenses = 10 % of the C. P. = 1.76875 Commission allowed = 14 10417* And 1s. 41d. = '05

017708
-067708
.: The net C P. in ladan money
= R. 13 56042

2002779 677##]1356042 = Rs 200 2779 188200 4 as 25

52784 5389 650 = R₃, 200, 4 as 5 ps.

The loverse process may be extended to

reduce a given amount in Rs, as, ps to pies We proceed as in the case of English money but divide by 5 to get the number of pies

In the next article I shall deal with Decimalization of English weights and Indian weights

(To be continued)

S. CHINNASAMI AIVAR.

AN TEACHEDS GILADD VOIMUS

CAN TEACHERS GUARD YOUTHS AGAINST EVIL INFLUENCES | By Krishna Dayarnaya.

"Let no reckies language pass unchallenged Find out what your youths are thinking of, goard them against evil influences and lead them to think right. Fearlessly and storaly condemn the written and the apoken word which may direct others into the path which leads to crime"—II E LORD SYDEMMER, 7th January 1913

THESE are the latest ultarances of H E Lord Sydenham in which he has exhorted the public to guard their youths against "evil influences". And no one will deay that amongst the guardians of youths against "evil influences," teachers as a class occupy—or ought to occupy—a very prominent and respectable position. It may not he, amiss therefore, to consider in what manner and to what extent teachers can guard youths against evil influences and in what manner and to what extent they are actually allowed to do so under the now existing disciplinary regulations and circulars.

The public (including teachers of course) are exhorted "fearlessly and sternly (to) condemn the written and the spoken word which may direct others (youths under their charge especially) into the path which leads to crime" And doubtless, if teachers had no fear of losing their bread for following this advice in the class room, they would heartily endeavour to the best of their abilities to dispel evil ideas from the head of youths, whenever occasion arose, not only in the

⁸⁴⁰¹⁶⁵ pics

8 Since commission allowed is subtractive, we take the 'nought complement' of a third of 17 6875

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class-room but wherever they should see them reading or listening to the word which may direct them into the path which leads them to crime. But alas! Disciplinary regulations and circulars have made them nowerless to do their duty in this direction! They are not to attend political meetings : they are not to read newspapers which adversely criticise and misrepresent the general policy and particular administrative measures of Government: shove all they are not to sneak on political questions or discuss with boys or inform them about current political affairs. in the class-room or out of it. In a word. they are expected to be quite innocent and ignorant of the very words-spoken and written-which may direct youths into the nath which leads to crime. How then are they to guard them against evil influences. and where, if not in the class-moon, are they to lead them to think right? If they themselves do not know what evil ideas, what evil influences, boys have in their minds, how are they to combat the situation? For, be it remembered, that teachers, whether in Government schools or recognised schools under private management, are ignorant, pay, they are ordered to keep themselves ignorant, about what is written by the press or spoken in the public on political affairs, whereas youths, whom they are expected to lead to think right, are not infrequently reading or listening to misrepresentations of Government policy and measures. in their homes, in public places, in the streets, and elsewhere. They are not to attend political meetings; how are they to know if any of their boys attend them? Thus it happens that although they have the ardent desire to guard youths against evil influences. the very disciplinary restrictions which Government have thought it wise to impose on them, prevent them from following the advice

embodied in Lord Sydenham's latest exhortation quoted above. Do Government think that teachers, who have received higher education and have chosen to epend their life in an ill-paid profession, in preference to better-paying professions, are so had, so disloyal, and intellectually and morally so obtuse that they will easily fall victims to the false logic of the anti-Government papers or to the specious arguments of an insinuating and intriguing speaker in a political meeting? If not, would it not be a wiser policy to take them into confidence, to look upon them as loyal guardians of youths against evil influences and to give them the liberty of reading papers and listening to speeches which spread discontent and disaffection, in order that they might be better informed as to the nature of the evil influences from which they may, from time to time, grand their boys, and lead them to think right? To expect teachers to follow the advice given above without giving them such liberty, is to expect physicians to deal with patients about the nature of whose ailments these physicians are strictly ordered to keep themselves quite ignorant.

It often happens that a boy, who has read or heard something written or said against the actions of Government, asks the teacher a question which often puzzles him, (for the boy himself is too young to think of asking such a question) ; and very often the teacher is full of indignation against the writer or speaker of the words which have prompted the boy to ask the question ; always, the teacher feels on such occasions an irrepressible desire to dwell on the question and to set the boy right. But it is a sin to talk on political matters! So the poor teacher, chafing under restrictions which defeat their own end, has (1) to order the boy to sit down, remain quiet, and mever to sek such questions; (2) or to tell him that the writer or speaker who prompted him to ask the question was wesk in the upper-story and hence unreliable; (3) or to ignore him sliegether and proceed with the lesson, or (4) to say that boys ought not to bother themselves with a boys ought not

In the first case the boy looks upon the teacher as a "tyrant and no gentleman," sarely it is not descrable that boys should have such an impression about their master. In the second case, the boy will be far from being convinced that his master's opinion is correct. In the third case, the boy will leave the class under the impression that his master is perhaps of the same opinion as the writer or speaker who prompted him to ask him the boy knows that his master is forbidden to table to political matters. In the list case also, the boy will have a similar impression

Ecough has been said to indicate how meastifactory is the attention into which teachers, the guardians of youths (for aix hours at least out of every twenty four), have been left by some of the disciplinary orders of Government. Let us now briefly indicate how this attainor requires to be altered

The knowledge that many teachers possess about the administrative meahners and the political problems of the country, is often not commenurate with the knowledge of those who vehemently attack Government's policy and measures every now and then If they had that knowledge, they might perhaps be better able to answer any questions based on adverse criticism

(i) The Government should, therefore, supply to school-libraries, such official papers, blue-books, reports and other publications as are supplied to newspaper editors There should also be a selection of books bearing on the administration of India under the pre-British and British periods and also books showing how India has ateadily prospered under the fostering care of England.

(n) Teachers should not be disallowed from attending political meetings, in order that they may have an idea of the views expressed in such meetings—views which no Government measures can prevent from being discessed in the homes, in streets, and in other public places, and which are sure to reach the ear of boys is some place or other.

(iii) They should have the liberty of discussing in the class room, any current political question or questions about which wrong and permicious views are likely to be expressed in the press or from the platform

In a word, teachers should be taken into confidence as loyal supporters and faithful adherents of the British supremacy in India, and be treated as such, matead of being looked upon with great suspicion, as they appear to be, judging from the nature of the restrictions imposed on them Of course, let the Government admit into its service only such men as can be trusted, let it also require the managers of recognised private achools to appoint none but trustworthy persons on their staff, but once trusted, let teachers have that liberty which alone can enable them to guard youths against evil influences, as long as there is no reason to suspect that they are misusing or abusing the liberty granted to them

₂70 S.S.L.C. EXAMINATION-GROUP C: PHYSICS-DETAILED SYLLABUS.

Headings	Subject in detail.	Books of reference, apparatus, etc.
Headings Measurements—Length. Area,	Subject in detail. 1. Mraning of a unit, Bri ish and metric units, an unitiple and enbenutiples, were of the foot and metric rules, calculation of mean values, one of dividers, for meaning for said, cannot be directly applied. 2. Leotth of corves, measured with a flexible material, as a piece of string and with dividers, by means and such as a piece of string and with dividers, below the said of t	spparatas, etc. (1) Sinclairs First Yer's Course in Practice Physics. (2) Introduction to Physics and Chemistry Parkin and Large (3) Elementary Practic and Physics, Watson. (4) Gregory and Haddey (5) A class text-bock to (6) First Year's Course (7) (6) First Year's Course (7) (7) First Year's Course (8) Jackson.
	taken in reading them 3 Finding the volume of liquids and irregular solids with graduated resects. 4 Califration of a long test in ocm. for use in	
Measurement of mass.	practical classes; use of a float in the burette. The balance; description; how to use it and pre- cautions to be taken in using it; meaning of mass	

Headings	Subject 10 detail	Books of reference, apparatus, etc
Density.	and weight simply explained, use of spring balance for comparing weights (indirectly mais) 1 of liquids To find the weights follow of water at a temp of the room, no find the weight of 100 cc of brine, copper sulphate solution, etc. Equal volumes of different inquids contain different masses Equal misses of different inquids occupy different volumes at deather the proper sulphate solution, and are supported to the content of the conten	
Hydrostatics	in Of solids From meas and rolume of soluble and meritable powders I The idea of pressure—the pressure of a 1 quid and the contaming rease; the weights of liquids compared, the definition of pressure of a liquid at a point. Increase of pressure with the begins of a tank bands: and a contamination of the presuper in tank bands: the spin contamination of the presuper in tank bands.	(1) Gregory & Sim mons Practical Physics Vol I (2) Gregory & Hadley "A Class Text book of
	2 Pressure in the interior of a liquid—above with an apen cylinder, ties and a string, appraid thrust, downward and alterards, a simple manometer for measuring roughly the internal pressure of a liquid abown with a U inter of different series (the bend being filled with mercury) Pressures in Y shaped tabel, conclusion, all kinds of pressures increase with depth, graph connecting pressure and depth and the pressure of the press	Physics .
	4. Effect of the resultant upward thrust—body weighs (appears) less in the liquid than in air. The Priceiple of Archimedes deduced Experts to prove the above (sceled and cylinder expr.) Application of the principle for finding the sp. of solids and figuids.	
	5 Flotation—when the upward threat is greater than the weight of the body placed in the liquid the body float. The principle of fl. tation is, weight of the fivature body — weight of the dispatch bed of Experimental verification of the ornerphe. Laws of flotation, used the principle of floation to find the sp. gravity of floating bodies (for example a wooden cylinder).	
	6 Hydrometers—simple ones, construction and use; Nicholson a Hydrometer, description, now used for finding the sp. gr. of solids and liquids	

Headings.	Sabject in detail.	Bocks of reference apparatus, atc.
Gages.	1. Their characteristics; pressure of a gas; a U-tube with mercury to measure pressure. Liquida in a U tube; calculation of densities of liquida that (do not mix with a U tube (balancing columns); of liquida that this with lare's appearatus.	
	2. The preserve of the atmosphere, to show that are gravite preserve—to make a herometer-record of daily observations; variations of atmosphere pressure; variation with altitude; variation werey day; graphical representation of variations in preserve. The standard pressure.	
	 Density of the air near the earth varies from time to time, so winds caused; calculation of pressure of air on 1 eq. cm. in grams. 	
	4. Geses perfectly elastic. Density and present increase when gase are compressed, They diamnish when gases expand Boyle's law. Experimental swriffcation for pressures [1] sbwc one atmosphere, [2] less than one atmosphere. Oraphical represen- tation of Boyle's law.	
	5. Balloons; how they work; principle of flota-	
	 Pomps—air pump; water pump; force pump; fire engine; use of air chambers; syphon; syrings. 	
Measurement of tin and Pendulum.	unit of time; the stocreat cay; the solar cay; the pendulum; properties of the simple pendulum; (1) time of vibration constant; (2) time independent of the amplitude; (3) time independent of the mass of the bob; (4) time directly proportional to the guare root of, the length of the pendulum; (5) time,	
	value of gravity. Experimental verification of each relation. The seconds pendulam. Guting the length of the seconds pendulam by calculation and verification of the same by expt. Graph represent- ing the relation between the length and time of vibration of a simple pendulum.	

(To be sontinued).

B. NARATANASWARL

THE STUDY OF FOSSILS

REMOVE the incrustations of the earth and von can see a valuable treasure hidden underneath it in the form of a book, the leaves of which are represented by the dif ferent strata and the hold characters therein -the keep sake of the past history of the world_are the well known velice of somele and plants, the owners of which once flourished on the face of the earth and most of them are at present snatched away from us by the hand of time Mother nature, not being unmindful of this catastrophe, has with her slow and steady course preserved those organisms carefully and those sheets will be unfurled only to those who have whetted their desire for a keen and genuine interest ın attaınıng true kuowledge

The remains of animals and plants either in the form of actual organisms or as casts and moulds, ench as shells and impressions lefs behind as foot prints, burrows of worms, insects, etc, are known as fossils. The term comprises my trace of form or structure of organisms, sometimes with all the delicacy of form entombed in different layers of the stratified rocks.

The solid crost of the earth, having been formed at successive periods by the deposition of rocks, can be divided into general successive for divided into general successive for the successive formed by the debris of the previously sciency forces, carried by streams and rivers and deposited in lakes and eras. The chalk pulls of England and the hadapps slabs of the

Madras Presidency are examples to these They really represent the catacombs of animals and plants which formerly existed on the surface of the earth These rocks can be divided into different groups or epochs, each group having fossile peculiar to itself Geologiats have divided these rocks into three groups, each group representing a period of unknown diration. These groups are again abb-divided into eystems of lesser periods of time. Most of them contain the fossils of some species, which no longer exist, but they belong to the primary sub divisions of animals and versibles which are known to its.

When a species has once become extinct, it never re appears. The recent strata contain the skeletons of animals, which do not differ greatly from the existing ones. The lowest stratified rocks are the oldest formations The older the formations, the greater will be the differences between the fossils they contain and the living animals and plants. They contain fossils which are so different in character that we cannot readily say to which of the existing orders they really belong Such creatures as aquatic reptiles as creat as whales, birds with teeth, some molluscs, crustaceans and pisces, exhibit such great differences that we cannot without difficulty classify them Such evidences tend to show that there is a direct continuity of succession of the forms of life in time. It is also possible in certain cases to trace the history of hving forms to the extinct ones

The chance of preservation of all animals and plants is not the same The manne creatures take a lead in this They are in a more favoured position and are likely to be preserved in numbers, for the fine particles of sand, mod and other sediments are sus-

nended in water and the organisms that happen to die and drop to the bottom are safely preserved among these deposits. In and cases the hard parts either in the form of endo-skeletons or exo-skeletons stand a hetter chance of preservation than the soft narts. The chiticous coverings of crabs. prawns, the skeletons of corals, the shells of molluses, the scales of fishes, calcareous plates of cuttle-fishes, and the bones and teeth of animals are generally met with in the sedimentary strata with little or no change. In order that animals and plants might be preserved, they must possess a skeleton of some kind or other, inasmuch as the soft parts will soon be decomposed and may not leave any trace of their existence. We cannot expect a jelly-fish to be preserved as such. unless it be its fossil in the form of an imprint. The second requisite is that the organisms must be covered up with some deposit. All marine creatures do not stand the same chance of preservation. Sometimes it so happens that the whole organism decomposes for want of sediments in the water. A large portion of the vast expanse is devoid of the sediments. The immense area of the ocean shows a bright blue tint and this beencaks its purity. If an organism is left on the surface of the earth, exposing to the air, the action of the sun, wind and rain, we see practically that oxidation sets in and the whole thing is crumbled down to powder. Even the remains of animals which are inbedded either in eand or gravel will be dissolved by the percolation of water during the upheaval of certain regions of the earth. In the tertiary deposits bones, shells and hard parts of crustaces and other creatures are found in their natural state without undergoing any modification. The hardening of soft moist clay into freedomes and the like agencies has bequeated to us the foot-prints of animals and has thrown light on the external conditions of those past days. The impressions left behind by tortoises' feet and the foot-steps of lizards, may, the impressions made by some shower, have been miraculously preserved to us by agres.

Fossilization depends greatly upon the composition of the organism and the material in which it is embedded. There are different types of fossils and the leading ones shall be cited below:—

(a) The organism is preserved as a whole. In this the skeleton as well as the delicate parts suffer very little change. It must be understood that if an aminal is kept free from the action of the air by a thick packing of ice and other impermeable substances, the animal will not undergo putrifaction and for ages it can be kept unchanged. For this knowledge we are to a great extent indebted to Peter Simon Pallas, who in his journey through Siberia in the latter half of the eighteenth century found out the entire specimens of extinct animals, such as the woolly rhinoceroses and mammoth. Even poets have been struck with these wonders of Nature and we have seen Lord Tennyson harping on these themes :

"Or like an old-world mammoth bulk'd in ice
Not to be moltan out."

Flies buried in certain resinous products of vegetables, known as amber, have also been found.

(b) The skeletons of certain animals are preserved almost nuchanged. This form of the fossil has its skeleton in its original form. Sometimes they lose their organic matter and are replaced by lime, making them little

heavier The fossils in the recent formations and the skeletons of the extinct animals differ in having the latter, lighter and more porous

- (c) The original substance becomes carbon used The chitmons coverings of some animals as well as plants having been decomposed their oxygen and nitrogen are liberated and thus the percentage of carbon is increased Similar action takes place in the conversion of ancient trees and plants into cosl
- (d) A cast and a mould may be found In this type only the external form is preserved, the internal structures and the original substances are entirely removed Moulds are marks or impressons left be hind by animals or plants, whereas the cast of an animal is the representation of the primel in stones or mide. These kinds of fossils are by far abundant in the porous strata When the organism, say, a mollusc is surrounded by a mineral deposit, it takes a mould of the shell, and the interior organism decays and the space is filled up by the same mineral material Water containing carbon diox de percolates through and the shell is dissolved and carried out as bicarbonate of lime, so that a mould of the external and internal forms of the shell is formed Sometimes it so happens that as the shell is dis solved and carried away by the percolation of water some other mineral substances get in and occupy their place. In such cases a cast of the shell is formed It may also happen that in some instances both a cast and a mould are produced Beautiful instances of this kind of fossilization are seen in the molluscan fossils of the secondary rocks of Portland The imprints, the foot prints of animals and the impressions left behind by

some soft bodied animals as jelly fishes can be included under the type of moulds

(e) Foesilization is also effected by some molecular displacement, when it is known as petrifaction Specimens of this sort are met with only very rarely The petrified fossils show all the delicacy of their structure these fossils the animals and plants have their organic matter replaced molecule by molecule by mineral substances The process goes on so slowly and wonderfully that even the minute parts are nicely preserved and no change occurs to the structure of the organism Petrifaction occurs either by silic fication (by the agency of silica) or by calcification (by the agency of carbonate of lime) Even the cells and vessels of certain wood have been fossilized in a similar way

In order that we may have a clear idea of the particular system or systems of rocks in which these fossits can be met with, the study of the distribution of acumals and plants is quite inseparable from the study of fossits. The fatus of a country is to a large extent independent of the climate and we also see that the animals of adjuent countries vary to a considerable degree. It is more advisable to study the distribution of the present fauna of the world from a zoo geographical point than from a mere geographical point of them.

To study the distribution of the past fauna and flora of the world, we shall transport curselves to the lowest layer of the stratified rocks and examine the records left to us by ages and ascend stratum after stratum, surveying the traces of the animals and plants, which peopled the earth's surface at such remote periods. In the lowest rocks where we find the traces of the abbitation of animals,

we meet with the remains of numerous invertebrates. Later on we discover fishes and amphibia and these are followed by reptiles, which precede the creation of birds and mammals.

The fossiliferous rocks can be divided into three great distinct geological epochs.

The primary epoch, the oldest formation, contains undoubted remains of land-plants. We find there the traces of dense forests, the stems of some trees towering a height of 80 to 100 feet. In this epoch the vegetables predominate and it is here that we have the first remains of land-plants. The countless tons of coal, that are being excavated from under the earth is supposed to be the remains of those autique forests. A considerable number of millipedes and scorpious of various sizes have been preserved in these rocks. Besides there, land-snails, insects of different types, size and colours, corals, sea-lilies, molluses and lamp-shells are present. The earliest organisms possessing notochord occur in the middle of this epoch and none of these has been found to possess a lower jaw or true paired limbs. The remains of typical fishes, their oldest known teeth, spines, etc., also appear here, but later on they become abundant.

In the secondary speak the scene rapidly changes, the thick and promiseous growth of plants vanishes and the 'levistham' appear. Probably this age has sopplied mythology with the description of wild monsters and animals, whose habitats we had not even dreamt of. The poet himself is astonished to find,

"Dragons of the prime,
That tare each other in their slime."
The lowest strata in this period show the

presence of a few reptiles, but they dominate later on. This age has deservedly been called the reptilian age. "The reptiles satonish us by their number, their gigantie size and their unworted form; satique and incomprehensible inhabitants of the globe reproduced in all their parts to our wondering eyes by the genius of a Cavier and an Oven."

The enoch denotes the existence of a throng of frightful lizards. In 1821 Charles Koneg. the first keeper of the minerological collection in the British Museum, described Ichthrosaurus as a veritable fish-lizard. This rentile is supposed to have been the terror of the seas. These spimals sometimes attained a length of about thirty-three feet-Their organisation is one of the most complex of all organisms. Their vertebre resemble those of a fish, while their fins are like those of a dolphin. Their jaws are armed with strong teeth, which resemble those of a crocodile. They have a pair of eves the mechanism of which is onite upprecedented. The optic lobe roughly represents the flower of a chrysanthemam and is sometimes as large as a man's head. With the help of this pair of magnificent eyes, the animal can find out its prey at the greatest as well as the shortest distances. structure of their intestinal tubes has been like an Archimedean screw and they lived upon fishes and occasionally their own species.

The remains of such dreadful animals are abundant in this period. The presence of a monstrous newly, Labyrinthodon, a most with faceth "as the windings of a maze," is not be less dreadful. The Manasaurus, as immense marine linard, attaining a comiderable length of more than 75 feet has been

discovered by W. Daniel Conybears in 1822 I G. A. Mantell in 1848 announced the discovery of Iguanodoa, as herbivorous dinosaur. This animal aided by its power fall tail walked on its hind legs. The total length of the animal is more than threy feet long and the head is about fourteen feet from the ground A gigantic American dinosaur has been described as the happy possessor of three powerful horos

The impressions of three-tood feet have been discovered Some geologists consider that these indicate the primary existence of birds. The oldest known birds belonging to the genne, archaeopteryx, flourished in this period. They first appeared in the upper strata of this system and retained conspicuous characters even in the beginning of the tertury reports and at a lated disappeared.

A few mammals also appeared for the first time. They resembled the pouched animals that are found at present in Australia.

The vegetation of this period closely reaembles the present flora of Australia M. L. Figurer remarks that "the state of vegetation in the cretaceous period might be looked upon as the vestibule of the vegeta tion of our day". A good many dicots have also grown in the closing period of this epoch

With the close of the epoch of the terrible creatures, we enter on a new era in which peaceful animals predominate. The fecundity of the distribution of viviparous animals of the tertiary epoch has given it the name of the epoch of mammals Monkeys, batter of the terribution of the epoch of the ferocous gents of the last epoch. Whales, a mammal with baked skin appeared for the first time in the sea. The gyptum

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quarries of Paris abound in the fossils of Palmotheria and Anoplotheria, a kind of thick skinned animals. The former resembled the tapire and according to Cavier, they lived in herds on the banks of rivers and lakes : and the latter could be compared to the otter, but were little larger and they dived with ease and sought for the roots and swollen stems. which formed their food Apoplotherium discovered by Cuvier has also been proved to be intermediate between the pig family and the ruminants, which at the present day have distinct distinguishing characteristics Palmitherium connects together the apparently different animals as the horse, the tapir and the rhinoceros. This species of animals was not happy enough to survive the epoch

This age reveals also to us the existence of Dinotheria, a terrestrial mammal, resembling

our elephant in shape, but larger in size Mastodon, which has excited in us so much interest and curiosity, was a worthy specimen restored to us from "time's tyrannic claim" It was known as "the elephant of Ohio." for it had the resemblance of an elephant and was discovered in numbers on the banks of the river of Ohio They are found in Europe and North America A perfect specimen in standing upright posture was obtained in the State Missouri in 1840, and this at present adorus the palmontological section of the British Museum They were found imbedded in sandy deposits with their stomachs loaded with food just then taken up and buried at the spots by some sudden floods and the deposition of alluvial mud It has been proved herond a doubt that their food consisted of herbs and small branches of

Owen remarks that the frightful Sivathorium-the name was derived from the God, Siva-found in India " is one of the most gigantic and extraordicary of the extinct races known to as." This was only a stag, as huge as an elephant, endowed with four horns.

Ancient molluses have perished and new ones appeared instead. Only very few reptiles are met with in this region.

The great similarity in the flora of this epoch to the present day is evidenced by the presence of oaks, cleus and various other contemporary genera. "Looked at as even in Europe," says M. A. Brongniart, a learned botanist "this vegetation displays in particular a great analogy with the present flora of the temperate regions of the northern homisphere."

From the earliest times two theories had

been in existence. Few people rightly conjectured that the fossils were parts of some living organism. The mass of the people could not go along the same line. Fine skeletons of animals even with their thin bones, shells with their ancient colourings and other marks, birds with their beautiful feathers, insects imbedded in glues with their transparent wings, leaves with their network of veins, woods with all their delicate vessels could not convince the people that they were the faithful records of the past fauna and flora of the world. They even believed that these fossils occurred as a result of the 'plastic force' within the earth and considered them as the 'Sports of Nature.' Medicoval people even went to the length of saving that they were 'the freaks of Nature.' This ides, lunus natura was held up to the sixteenth century.

The crust of the earth is subject to many convulsions and the Plutonic force within disturbed its surface from time to time. As a result of this, the fossiliterous rocks from the beds of the deep were brought up to the top and the portions fractured occupied the position of mountains.

It required the genius of Bernard Palissy, the real founder of geology, born of poor circumstances with an abundant endowment of superior intellectual faculties, to dispel this superstitions belief from the minds of ancient people.

The skeletons of elephants and matodons were considered by the ancients as the faithful remains of the famous warriors of old. A large knee-cap of an elephant was imagined by some to have belonged to Ajar. The remains of some mammals found in Sicily were worshipped by many people in the firm conviction that they belonged to Polyphemus. The conception of the existence of this valuable treasure hidden underneath the earth was so meagre that many persons fabricated unistelligent stories and mythologies according to their turn of mind.

For the inception of the science, we can ge as far as three centeries and more before the Christian Era. Among the Greek, Aristold, X-nophon and Strabs knew the cristence of foresile and they made a croid a cursios of their own. In the sixteenth and seventeenth centuries, the pioneers of science, tried to throw some light upon this, but the heary stembling block of religion and tradition stood in their way.

The study of these medals of Crestions' was again taken up in right earnest only in the beginning of then incidents hecetary. J.B. Lamark (1744—1829) was the founder of invertebrate palaeoutology. The marreless discoveries and the remarkable researches of Univer (1769—1832), the founder of vertebrate palaeoutology canaced a rapid progress in the

science Charles Darwin lubricated the wheels of action by the expounding of his new theory. His theory on 'descent' stimulat ed the people to search, to fortify and if necessary to verify this newly avowed theory Scientists in all continents engaged themselves in finding out some new specimens or other so that they might grapple with Darwin's theory of evolution In the first half of the nineteenth century the extinct reptiles of the world were brought to light They were so varied and different in structure that they required a great scientist to classify them Attempts by many did not prove fruitful until the great anatomist and the direct successor of Cuvier appeared on the stage in the person of Sir Richard Owen (1804-1892) He re arranged and classified them on his own model The master works of Leidly, another adherent of Cavier, stirred the scientific world from America "In discovery the theatre of interest shifted from continent to continent often in a sensational manner After a long period of gradual revelation of the ancient life of Europe, extending east ward to Greece, Eastern Asia, and to Aus tralia, attention became centred on North America, especially on rocky mountain ex ploration New and unheared of orders of amphibians, reptiles and mammals came to the surface of knowledge revolutioning thought, demonstrating the evolution theory and solving some of the most important problems of descent"

The advancement of the science of animals was effected chiefly by the ardent endeavour in the research of fossils Evolution from the lowest to the highest can be discerned if all the animals past and present have been placed before us On account of various reasons the record of the succession of life is very imperfect. The only resource on which

we can rely and which can supply us with some missing links is the fossils. Hence we find the extreme use of paleontology

South America and Northern Africa give us the descent of elephants. In India there were eleven species of elephants, out of which only one has survived to the present day

The evolution of bird was causing great anxiety in the mind of some scient sts The notewortly discovery of birds of the genus archaopteryx in Europe and besperornis in North America by Prof W A Marsh, has been a wonderful boon to the supporters of the theory | The bird is of the size of a rook It bears a great resemblance to the reptiles and is the possessor of a number of teeth unusual in birds Its I zard like tail is also long and tointed, each toint possessing a pair of quill feathers. The wings of this bird have not been specialized as birds This animal is supposed to be a connecting link between the birds and the reptiles almost complete specimen of this animal was discovered in 1877 and it has been preserved in the Berlin Natural History Museum has a skull containing teeth and exhibits three digits in the fore limb all ending with claws The British Museum also possesses a fairly good skeleton of this curious bird. but it is unfortunately wanting in the skull

By the help of the study of fossis we can trace the life history of animals and plants with certainty. The modifications of a certain organ through different strata can be traced successfully. We find a good illustration of this in the present horse. The carliest horse had five toes and this was followed by fewer toes until it diminished to the present form with a single toe, which we call the hoof, Their grinders also exhibit similar striking features.

Geological records reveal to us that the life-history of an individual is but a rapid and sometimes incomplete repetition of the history of its race. Ontogeny (evolution of the individual) is a recapitalation, in ministure, of phylogeny (evolution of the race). Evidence to this is well furnished by morphology and embryology. For example, a frog begins life as a single cell. This unicallalar coaperm undergoes a series of modifications, until at lest it assumes the form of a tadpole and enters the stage of a worm and thence a fish. This animal is afterwards metamorphised into the more highly organized being, the from.

Fossils indicate the changes in the geography of the earth. The presence of terrestrial fossile in a strata, where marine organisms are found in abandance, leads us to infer that the land was not far off. Probably the animal that was grazing was dead and among the havoes done by sudden floods, plants most have been uprooted and these were carried by currents to the sea to be buried there. The stumps of trees in position show the presence of land. Innumerable pieces of stones of various sizes, whose corners have been knocked off and are scattered over a particular region will certainly remind us of the existence of a river at a remote period. Skeletons of littoral animals sometimes help pa to know the depth of the ses.

The climatic condition of the past ages can also be known from examining the remains of suizals, and more especially of plants. The fossils of a tropical region very closely resulted the cristing animals and regetables. The same rule holds good in a cold country. The true nature of the climate of a region

cannot be judged by the existence of the fossils of animals alone. The mammoth, resembling an elephant, was found entombed in the deeper layers of Northern Siberia. From this we cannot infer that the place belonged to the tropical region. Analogies are often-times dangerous. Mammoths were well adapted to live in cold climates. The main principle of the science of fossils is the study of adaptation. The remains of mollates, characteristic of tropical and sub-tropical seas are even now found in London city!

The fossils serve a useful purpose as the indicator of geological chronology. Each system of rocks contains a particular species of animals and plants. It has been found that the latest formed strata have the organic remains, which closely resemble the existing organisms. The order of the auccession of formations has been effected, not by a sadder replacement of one set of animals and plants by another, but by a slow and gradual process by means of which some of the older open have perished and a few new ones have come into existence. This definite succession is the same in all parts of the globe. The fossiliferous rocks of a certain epoch of Europe bears a close comparison to those in Asis, America and Africa. This is applicable not only to epochs, but to each succeeding series of rocks. Therefore this helps us to fix with accuracy the relative position of rock in the geographical formation. It also enable: us to understand that, although two strate show some slight variations in their forms tions, they can be grouped under the same name and age, if they have the same fossi remains.

The study of fossils has already supplied us with the knowledge of the traces of animals and plants, which are not flourishing on the enrince of the globe at present. They furnish us with the missing links in the chain of progress. Fussils of animals also help us to discern whether they lived upon vegetables or other animals. If the edge of the teeth are pointed and coincal in shape, they are known as canine teeth and we meet with canine teeth generally in caraivors. The stomach of the caraivorsa animal is small. In herbivorous animals we meet with comparatively large stomachs. They also possess teeth, which are flat and rough outside. A combination of these two qualities indicates that the animal is omnivorous.

It may also be mentioned that some fossils are supposed to possess medicinal properties. Pouchat mentions that "the bones of bears which were obtained from the cares of Franconia passed in Germany for a sovereign antidots and were sold in all apothecaries' shops as the remains of fabulous suncern"

The fossils of creatures like ammonites are used in many parts of India, as an object of worship. They are known by the name Saligramam and can be obtained from the river (Instak, a tributary of the Ganges. It has an oval shape and possesses a very small hole. The interior space as well as this hole, which leads up to it, are the work of a tiny creature belonged to an extinct genus of mollucer. The animal afterwards finds its way inside and ultilizes the new abode as its lurking place.

The fact that certain kinds of earth are used as nutritive meal may seem astoonding. The Negroes heigh in the forests of Candan and Florida, the Ottomacs on the month of the Orinoco, and a few people settling on the banks of the Amszon, do feed upon a kind of clay at certain seasons of the year

Moreover, it is well known that an edible clay is a marketable commodity in Bolivia These clays have been examined and found to consist of innumerable fresh-water infosoria. It is evident from this that the value of these olays is due to the presence of these microscopic shells. It has also been found that in times of dearth Laplanders substitute a kind of white mineral dust for cereal products in preparing bread. Retains examined this meal under microscope and found out to the astonishment of many that it contained about nucleon species of distories.

V KRISENA MENON

THE TEACHER AS CRITIC AND CRITICISED.*

Mr Ramanatha lyer in opening his lecture remarked that when he was asked by the Score tary of the Association to deliver an address be was wondering what to speak about when a young friend who had ventured upon some criticism. complained that criticism had its penalties. That made him think of critic am in general and of the relation of the teacher to criticism A great part of the work of a teacher was connected with cri ticism He had to criticise his papile work He had to assign marks for the various studies, and day by day they had to make a record of the progress made by a student up his studies. There had been felt a great deal of difficulty in assigning these marks and as to the exect estimate that could be formed as to the progress of the pupils, and this difficulty was one which had been great ly disturbing teachers in Madras in connection with the School Final Scheme. A great deal of criticism had been levelled at the question as to whether the estimate of pupils' work had really

^{*} The substance of a lecture delivered by For K. B. Bamanatha Iyer, M.A., B.L., L.T. of Pachalynppa a College, under the anyloss of the Teachers Associatiod, Teachers College S. dayer, with the How bis Mr. P. S. Strawami Alyer, C.S. E., O.I. F., in the chaft,

any real worth. It had been contended that it was merely an approximation that they arrived at. In some applicate it was easy to mark the punils' work according to the lecturer, and be described how the marking system was carried on in such subjects as mathematics, and in such sphicats where they had to judge the work actually done. It was difficult even there to estimate whether the matter tangelt in such cases had been properly assimilated, or whether it had been merely mechanically memorised. He suggested that in matters of composition and translation and kindred subjects, they could arrive at a fair estimate of the work of the student by giving them test papers on subjects which had not formed part of the immediate class work. If this were done to a few of the students in a close at a time, the teacher or headmaster would be able to arrive at a correct estimate of the pupils' proficiency. Such a test would be much better than the matriculation test, the non-existence of which was lamented loudly. It was not possible for a pupil to answer such test papers by mere memory work and he thought that the feachers could be said to arrive at a fair estimate of the intellectual capacity of the pupils in this manner. They could slee judge of the kind of moral training the pupil had received because to be able to answer such questions properly the student would have had to avoid the temptations of idling and passing his time in other than serious study. The question of how the teacher was to onuse the moral character of the pupil was often a pozzle to most of them. It was difficult in the High School with its forty students in a class and it was still more difficult in a college where classes were very much larger, sometimes 150 students being in one class. In the smaller classes the teacher had more opportunities of poniact with his popile, though even there it was a matter of considerable difficulty to come into contact with all students. He had heard complaints from headmasters that the instructions of Inspectors were difficult to carry out and that

these instructions tended towards a mere mechanical account of the work from day to day. If the residential system were extended to the high schools it would afford a better method of arriing at a decision regarding the pupils' moral qualities. At the present time there was very little opportunity of so doing. At the same time a teacher did have opportunities of studying his pupils and their characters, and that should be of great sid to him should be feel tempted to enter the field of experimental psychology.

CRITICISM OF EDUCATIONAL ADMINISTRATION. .

He would now doel with another and a more ambitious kind of criticism. That was the criticism of the Educational Administration. They had to work under certain systems and they knew where the defects were, and the more adventurous of them might venture to state those defects. He thought it should be a matter of duty with them to give frank expression to their views. If the better informed with regard to these defects did not come forward, then the worse informed would do so and the complaints would be discredited. If there were freer criticism and more criticism there would not be so much sensitiveness among people who administer affairs-The reason there was not enough criticism and of well informed criticism was that the critics were very much denounced. It was bad for the teachers not to judge and say what they thought about the matter. It was only by criticism that the educational authorities themselves would be able to progress in the proper manner. Therefore, he said, it was their duty as teachers to criticise in this manner. The lecturer next dealt with the necessity of strong and infinential teachers' associations all over the Presidency, so that through the matter tions, they would be able to criticise with greater weight. Teachers must keep themselves acquainted with the movements in the larger world outside the narrow limits of school life, They abould be acquainted with the progress made in other walks of life and anything that might help toward educational progress. With regard to orthonom of things outside educational matters the value attached to this was dependent upon the knowledge and competency of the critic If they criticised any matter it must be taken for granted that they had daly qualified them selves by learning all that there was to be known about the ashiest.

PRVALTIES OF CRITICISM.

They must realise that there were penalities attacning to criticism. If they offered their opinion in regard to matters of administration, even though it be as well considered and as correct as they could make it, they could not expend the extinuesed to warm up to them Hamsa nature did not encourage criticism and it was only when criticism came to be perfectly common that the penalities would be avoided. If they offered criticism they would be marked men and would have to put up with essuing difficulties. The critic would be a very bad observer of human natures it he expected anything else.

THE TEACHER CRITICISED

He thought that outside the school the teacher was generally supposed to be parrow, mex perienced in the larger world of affairs, doctringire and concerted. He supposed that the idea of concert arose because a teacher is so often engaged in teaching that he sometimes forgets that he is outside the school and that the man he is endeavouring to teach is not his pupil. It was sometimes said that he relied solely on books. This was hardly a just criticism teacher must necessarily get a wide knowledge of the world from contact with men This was especially necessary because it was said, and teachers themselves frequently made the claim, that they were producing the fature citizens of the Empire They should see there fore that they were not mexperienced and they got that larger experience of the world necessary for so important a work. They should utilise their spare time to make themselves acquainted with work and movements of various kinds. With regard to their being doctrinaire this was always more or less of a fault with people who had to put a great degree of faith in books. But they were not content to accept all that was said in books. Books contained geotgalisations and they must see how actually these generalizations worked.

What was the function of education? Milton said "Education fits a man to perform justly skiltally and magnanimously all the offices of life, both public and private of peace and war' The teacher should fit himself to carry out this his great task They had heard a great deal of late about engence, but he thought of the ques tion from the point of view of sugenics of the mind, se, the higher development of the mind They were not getting recently for the teaching profession the same high type of men sa they used to get in the older days. This was partly due to great inducements held out to the best men in other walks of I fe. Taking the average teacher, he did not think that they took suffi cient advantage of their opportunities for self culture The teacher should be physically fit and try to keep up a high level of health With regard to the kind of culture it should be an thorough as possible in the teacher's parti cular line of work and he should be as well informed as possible on general matters. The fecturer concluded by asking teachers to take a more active interest in public and political matters.

THE CHAIRMAN'S REMARKS

The Hoo blo Mr. P. S. Sirawami Ayarın conciding the proceedings and "One of my reasons in accepting the invitation to be present this source, and the property of the control of the match in the control of the control of the whoch has been produced in your minds. He 84

expected? He has dwelt upon the teacher as an active critic and as a subject of criticism. He has pointed out the various tandencies which have been the subject of unfavourable criticism in a teacher and he has pointed out to you how this criticism may be obviated Gentlemen. I do not look upon criticism as an end in itself. After all, criticism is only a guide and a means to the real understanding of men and things, and I have a dislike of criticism for the sake of criticism, the object of which is not to elicit truth or to state truth. Now, in your profession you have abandant apportunities for cultivation of the capacity for criticism in the spirit in which, I think, it ought to be employed. Unlike others, you have the privilege of compelling people to submit to your criticism and listen to it and even to follow it. With such abundant opportunities for the exercise of the faculty of criticism you have to see that your criticism is not unjust. There are two things which seem to me to be necessary elements, in any sound and just criticism of men or things, and they are sympathy and imagination. If a pupil makes a mistake and you wish to criticise it. I don't think you will have discharged your duty as a critic adequately if you merely point out that his answer is wrong, or that he ought to bave given a different answer. You must try and put yourself is his place and find out why he committed the mistake, what it is that led up to his proceeding along that particular line of thought. or working at his question in a particular way. or expressing a particular opinion. You must put yourself in his place and the exercise of imagination and sympathy is absolutely necessary to enable you to perform the part of a critic with

justice. It is only by so doing that you will be

able to form a true and accurate estimate of the

capacity and worth of your pupil,-that you will

be able to convince him that you are right and he

is wrong. It is not enough to tell him that he is

wrong, you must tell him why he is wrong. And in assigning marks—that favourite function of a schoolmaster-and appraising worth, you must see that you have made all allowances for the nufavourable influences that have led your pupil to do a particular thing, or give a particular answer.

Norn pop a Sever or Perspective.

"Another thing which seems to me to be also necessary in cultivating the faculty of criticism is a knowledge of perspective, I mean, intellectual and moral perspective. Very often we miss the real position or importance of things or applicate. It may be that the needs of the hour or the exigencies of our duty for the time being may require that we should appear as if we were obsessed by a particular idea. But you should never yield to any particular obsession. A man obsessed is incapable of sound indement of men or things-Very often people fail to realize the real proportion of things, the importance of various objects, the place to be assigned to different institutions, movements or things. It is only by a process of constant examination, by a process of analysis, that you can arrive at what I may call the true perspective of things. Almost every day you will find that the tendency to neglect perspective is exemplified in public affairs. There are men connected with different movements who exhibit this trait. If you hear a temperance preacher he will tell you that there is no other virtue in the world so cardinal as temperance, that the salvation of the world will be brought about and the millennium reached by temperance or tectotalism. The sanitarian will probably tell you that sanitation is the most important thing in the world and that it should be carried out at the expense of all other objects. If, on the other hand, you turn to another who concerns himself with the coapel of education be will tell you that there is nothing more important than education and that all things must yield in importance to it. Very often we have evidence of these things in the way in which people and particular departments urge their claims to grants from Government Each official, or non-official, who identifies himself with a particular object, puts forward a particular claim or object, as if that object or claim were the most important To show you that my remarks are not altogether of an academical coaracter, I may give Which is the more you another example important, elementary education, secondary education or University education? Now the advocates of elementary education will tell you that elementary education should have precedence over every other, because it is the most important If we are to follow this advice it will mean that until the many crores of Ropees which may be necessary to satisfy the demands of elementary education are found for that purpose, no money may be provided for higher education. Are we then to shut up our Universities and close our secondary schools and colleges ? The usual temptation of a man who has identified himself with one particular thing is to become a faddist. This tendency to exaggerate is one which I think we have to guard against I know it has been said that the world is moved by faddists but most faddists are men without a sense of perspective or propor tion It seems to me if you make it your end as a teacher that your judgment shall be true and sound, and if you brain your pupils to exercise their faculty of judgment correctly and justly, you will I ave discharged a most important function. It is all the more your duty to train boys and young men to form a correct judgment, because it is part of your duty to train up the future citizen and you cannot possibly do it unless you qualify yourselves for the task

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"Gentlemen, my friend has pointed out that entitiesm is attended by penalties. I hope that if any of my remarks have been critical they may not to be followed by any penalties. If, how over, any penalties are to follow, I am quite preseared to face them.

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Trachers in Public Life

"The lecturer has already dwelt at considerable length upon the importance of your acquiting yourselves in such a manner as to obviste certain criticisms. I know it is often proed against teachers that they are doctrinaire and impractical, that they are not men of affairs, and so on For my part I am quite prepared to make allowances for all of them If they show any such failings it is partly due to causes which reflect credit on the teachers The teacher is a man who, I believe, often holds high ideals. If with these high ideals he works himself up into a belief that these ideals are realised or he becomes unduly optimistic, and so does not make adequate allowance for the shortcomings and failings of humanity outside, it is an amiable defect. I should consider myself a very harsh critic, if I did not make allowances for such tendencies At the same time it is necessary for the teacher to avoid every defect that it is possible for him to do. I do not see why members of your profession should not have a broader outlook than that obtamphic within the four walls of the class room There is nothing to prevent you from attaining it if you will only follow the excellent advice the lecturer has given you You will thus find yourselves less and less open to the reproach of being unpractical Quite recently you know we have had instances of men distinguished in the educational field making their way in politics and other members of the profession may follow the same example and cultivate a spirit of thoroughness and earnestness and a desire to acquaint themselves fully with the difficulties of the problem before expressing an opinion upon if The lecturer has warned you about trying to impose immature or uninformed opinions upon others and expecting them to accept such opinions readily. This does not however debar you from forming provisional opinions and discussing them with others."

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EDUCATION IN THE MAGAZINES. (INDIAN.)

"Civic Virtues."

Hander the ananices of the Teachers' Association, Madura, Mr. J N. Farquhar, M.A., of Calcutta, delivered a lecture on the "Civic Virtnes" before a crowded audience in the Sethupathi High School Hall, with Mr. A. Rais Rama Iver. B.s., in the chair. The following is a summary of his speech .-

The State is the union of all the people of the country for the highest welfare of each of them. Three functions are necessary for a healthy State. First is the protection of person and property of the citizens for which Army. Navy and Police are needed. The second is the administration of law and justice. The third has reference to trade and communications. No State could be healthy unless the Government looks after the roads. bridges, harbours, &c. It has also to control over Railway, Post and Telegraph offices. The fourth is the undertaking for the benefit of the people miscellaneous pieces of work. Departments to gather information are necessary for the growth of Commerce and Industry. In all these four functions the modern state as well as the ancient state are at one but on two aspects they differ. The project state was statistic wherean the modern is progressive. In all ancient States the idea was that the laws had been given by God in a body, clearly stated and final which under any circumstances could not be altered. To propose a change of law or to seek to modify the Government was treason and disloyalty to the Government. But in the modern state the conception is that the human life is constantly changing and naturally the state should change along with the human life. It is impossible for a modern man to think of a healthy Government otherwise than changeable. In every modern state there is the legislative constantly active for making laws and there is also a serious endearour to better the social conditions of the people. The

second point of distinction is that in a modern state the idea is that the people should govern themselves, the executive merely being the servants of the people. The idea of Self-Government is a modern one and meant not that a hody of educated men should take the Government into their own hands but the people should govern themselves. No Government is perfect and even republics are not completely selfgoverning. To attain Self-Government is a most difficult thing, and it could be only secured by gradual process whereby methods should be used for bringing the ideas of the people to best upon the Government by careful device of machinery and the success would depend upon two factors, the sincers desire of all those who are at the centre of Government to actually put the Government under the hands of the people and the real capacity of the people to guide the Government, Self-Government is the ideal of every Government and the civic virtues are of almost importance. The first duty of a citizen would be loyalty-loyalty to one's own country and people. Loyalty to one's country means loyally to the highest welfare of all the people of the country, which also implies lovalty to the constituted Government

The accord virine of the citizen is courses. There are several classes of courage-courage of a soldier, courage in a man of authority and courage of a reformer, civic. Courage is essential and must be bred and it is necessary for the success. The third virtue is patriotism-love of one's own country and love of the people, it is not the sentimental love but practical love for the welfare of India, that is true patriotism. This spirit is spreading throughout India at the present day. Loyalty, courage and patriotism are the three prominent civic virtues which are of extreme value and importance to the modern state.

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Influence of English Literature

Mr. J. S. Chakravarti, the Compitedler and Financial Secretary to the Guvernment of Mysort, presided at a lecture given by Prof F W. Quinton-Anderson of the Cectral College, on "Feglish Literature" The Islaming forms part of the Coloniar remarks from the chair —

There are four rasons why the atndy of I uglish literature is necessary and important for the rising generations of India | Fuglish literature must be studied for its own sake, for its great beauty and richness, it should be studied so that we may fully understand the Fuglish people -the qualities they possess and the stuff they are made of , it should be studied to improve and enrich our own vernaculars, and it should be studied to impart new elements of invigoration and emancipation into certain aspects of our own social and moral character There is yet another reason why English literature should be freely and extensively cultivated throughout the length and breadth of the Indian continent. It is a valuable and powerful unifying force towards the realization of the goal of making Indians a solid and united people. If ever the three hundred and odd millions of India are to have a common medium of expressing their thought, that will be connected in some intimate way with the English language, and if ever the three hundred and odd millions are to form a united neanle with common ideals and a common culture. which should, of course, be essentially Indian, the influence of English literature will be invaluable in the shaping of those ideals and in the evolution of that culture

Advice to Students.

His Executive Lond Carmichaes in his speech as the Daces College gave the following piece of advice to Indian students as regards their future career.—

"I cannot bely being atrack here in India by the fact, which I find very hard to understand, that so many young men seem to look to Government service as the profession which they most wish to follow I suppose it has its attractions or perhaps it is that other careers are more difficult to enter upon, but the number of posts in Government service is very small and must always be small as compared with the number of students who leave por colleges every year, and it seems to me most desirable that students should realise this more fally than they do I hear almost every day of young men whose fathers have given them good education, who have had a creditable career at the University, but who have gone to their homes and are waiting there in hopes of finding Government employment and who are suffering bitter disappointment because it is not possible to get that employment I do hope that that will not be the case with any of you, but that you have, even though you want Government posts, thought of some second string to your bow"

The A B Patrika writes as follows :--

Lord Carmichael would have conferred an eternal obligation on the people of India if he could have shown a career for our educated young men. The commerce and trade are in the bands of foreigners. It is absolutely impossible for them to compete with these enterprising capitalists. All our industries have been killed. Agriculture does not pay, even the produce of the fields are in the hands of Luropean merchants and traders The future of our hopefuls is thus dreary in all conscience. It is starvation, pure and simple, that awaits them, for they have absolutely no second string to the bow, and the only string left to it is threatened to be snapped. University education may expand the mind, but it does not alley hunger We think His Excellency will now understand why our young men worry the authorities for employment under the State.

Certain aspects of the Dacca University.

The following views of Sir Garudess Bannerjee on certain aspects of the Dacca University Scheme, will be read with interest:—

- "It 'residential University) is less adapted for moral and religious education by reason of that very excess of help, assurance of comfort, and regularity of supervision, which are less beinful in training men for the rough world outside the College walls, where they have to be resourceful in emergency, to stroggle patiently and cheerfully with adversity, and to accept the inevitable with calm resignation to a will that is inscrutable and supreme. Living with parents or guardians, or in small messes under suitable occasional appervision, is far more elastic, gives students far better opportunities of mixing with human beings as buman beings and not merely as students, and is far more conducive to the growth of those moral and spiritual qualities so necessary for the world, than the rigid routine and dead level uniformity of life in a large bostel, where the largeness in the number of boarders must make discipline to a great extent more mechanical than personal."
 - "The establishment of a College for the welltodo classes as a part of the University is open to grave objection. In the first place, there is no necessity for such a College in connection with the University, as it is not proposed (see Report, read for University Places, and as the classes for whom such a College is intended have supple mesons to establish a special College themselves.
 - In the second place, the inclusion of such as College in the University will impair the integrity of University discipline by the uniqual treatment of the rich and the poor side by side, and will give rise to carbestty feelings in each class towards the other.
 - In the third place, those for whom it is intended will becelf ter less by stadying in such a College than they would by becoming students of an ordinary college, and joining in the competition with a better though poorer class of students.
 - To introduce distinction between the rich and the poor into the temple of learning would illscound with one of the noblest and most cherished of human sentiments."

Education in Bombay.

In presiding at a formal ceremony connected with the inauguration of a High School in the town of Lurkana in Sind, His Excellency the Covernor of Bumbay delivered the following interesting speech:—

"I have taken the deepest interest in all educational matters during my period of office, and I am sore that the Presidency is advancing on the line which leads to the general welfare for which much remains to be done. What is called and often miscalled Technical Education needs reform and development which Government have under consideration. Agricultural training, both theoretical and practical, most be extended, and the useful experimental work which the Government are carrying on must be brought closer to the people by means of demonstrative Farms, and other ways which the spread of literary education will greatly assist. I do not think that the Primary Schools can undertake any teaching of agriculture with advantage, but indirectly they will greatly facilitate the diffusion of useful knowledge and will stimulate new interest in the vital industry of India. Similarly, we hope that our sanitary primers will help to promote acquaintance with the elementary laws of health which are now widely disregarded. Higher edccation leaves much to be desired, but the two Science Institutes, and the College of Commerce which the wise patriotism of Indians has enabled me to start, will in time play an important part in training Indian brains to seek the solutions of Indian problems, to appreciate the logic of facts and to avoid the too narrowly speculative habit of mind which has hampered Indian achievement-Education, believe me, is a very difficult subject which is not yet perfectly understood in most countries. Empest thinkers are beginning to tell us that great mistakes have been made in the past, and that the present ideas need extensive revision. The education of the masses may be said to be still in the experimental stage, and the results so far have disappointed expectations, which were too sanguine. India must be ready to more with the times and to welcome the reforms when they can be proved to be necessary. Among the Muhammadans of Sind, education has been far too much neglected, and the result is plainly visible in the disproportionate number of them employed in the administration. earnestly hope that they will correct this weakthe honour to lay the foundation stone will be turned to full account by the parents of the

rising Reperation."

Madras Medical College -

Education in the Madras Presidency

We take the following from the speech of H s Excellency Lord Pentland on the occasion of the distribution of prizes to the students of the

"The advancement of Medical science must be one of the first aims of such an institution as this, if it is completely equipped for the work which is expected of it We live in an age of invention and discovery The earth has been transformed in the last two or three genera tions, but amongst all discoveries which bave affected the lives of mankind, discoveries of science which have been applied to the practice of medicine have perhaps done most for the progress of humanity Then also this is a frain ing ground for those whose noble calling it will be to endeavour to relieve human suffering which surrounds birth Proud as we may be of what has been seen here in this city of Medical Institutions and facilities for this high purpose, still of course there remains a great deal to be However well againpred this city may be, considering all the difficulties which have had to be faced, we are only touching the fringe here. the merest fringe of the work that has to be done in the years to come over great tracts of country which are to be found in this Presidency and in this part of India Here in Madras we have a reminder in the death rate itself that we have much to do However, that is a wider question than a purely medical question I think those who know will agree with me that if Medical Education is to have its full effect, if the work of those who are working in this College is to bear full frost, there must be a general and persistent endeavour to raise the level of general education throughout the Presidency. For the appreciation of what is being done there must be a faculty of appreciation and power of appreciation must be increased. I feel quite sure that as years go on, better times, sa Col Giffard says, will come 1010 in all that he says and so wisely says think with him in regard to the importance of this work not being left wholly to the agency of Government and I sincerely trust that in that direction also his hopes may, as time goes on, be justified and that increasingly there will be private recognition of the value of the work which is being done here. So far as Government is concerned Colonel Giffard and those who are working with him here may be sure that we shall not fail to recogniss our duty towards this branch of administration and we shall do our utmost to support and advance the work which he and his colleagues are doing

Sanskrit Study in Calcutta

The Inaugural Convocation of the Board of Sanskrit Examinations, Calcutta, was held in the quadrangle of the Sanskrit College for the purpose of conferring titles on the students who had passed the banckut tule examinations in various branches of Sanskrit learning. The keen interest which His Excellency takes in Sanskrit learning will be seen from the following extract which we take from his speech - I would like to tell you how much I appreciate your having invited me to preside here to day over this large gathering of learned Pundits from all quarters of the Province and I would like each Pandit to take back to his own Tol a message to his scholars telling them that the Government of Bengal at any rate will extend to them that sympathy which Sir Asutosh asks for, We listened with delight to the Vice Chancellor's eloquent address, but I can imagine how much more enthusiastic you would have been, how much more you would have appreciated his words, had he been speaking to you in Sanskrit, and I feel that we would all have been brought together much more closely if we had all been able to noderstand him when so speaking However, I feel highly complimented that Sir Asatosh took pity on my ignorance and enabled me to grasp the meaning of this Convocation by addressing you in my mother torgue metead of

Sanskrit language and literature receive much more attention in Europe now than they used to receive Within the last few weeks people in London have been flocking to see a Sanskrit play I am afraid it was acted in a translation, but nevertheless it shows that there is an awakening of interest which is all to the good I have no knowledge of Sanskrit, and I fear I am not likely to learn it now, but I spent a good deal of my time as a boy in learning the classical languages of Greece and Rome, and I hope I can appreciate the point of view of the classical scholar. In that at least we are in sympathy. Civilization in the past owed much to the ideas expressed in your language. You have every right to be proud of those ancient ideas, and I have no doubt that a closer and more familiar study of them would prove a great gain to those who have to deal even with the most modern problems of life

Perhaps some day the dream of an Oriental University to which Sir Asntosh referred may be realised I feel sure that Convocations of the Board of Sanskrit Examinations, such as that which we have inaugurated to-day, will help much to attain this end."

(FOREIGN).

Need of a simple Curriculum in the Teaching of History

The Annual Meeting of the Hestorical Association was resumed at the University of London, Professor A. F. Pollard presiding.

Mr. G. G. Coulton (King's College, Cambridge) read a paper on " The Standardization of History Teaching." What, he asked, had ruined the Army examinations for so many years?-A convested corriculum and a want of scientific proportion. Headmasters insisted that the boy could not dispense with certain applieds. The War Office, from an opposite point of view, insisted upon other subjects; and the punil fared like a hospital patient whom the ductors fed on one diet while his friends amuggled in another, Was not this, in more or less decree, the admitted fault of all modern education? Too many subjects were taught, and they were taught too well. Experience and common sense proclaimed the imperative need for a simple curriculum. Au honest carefully selected half would prove far greater than our present heterogeneous whole, If we took by chance any dozen admittedly educated Englishmen mature citizens doing good work in the world whose education enabled them to make the best use of their daily practical experience, it would be found that while each individual knew a great deal the greatest common measure of their knowledge was startingly small. Why, then must we necessarily aim at providing a dozen schoolboys with a greater common measure of education than we found among a dozen confessedly educated men ? Everywhere the unessential Much was a deadly enemy to the essential Little. He believed that by careful selection and standardization they could instill what he would still call the existing common greatest measure of knowledge in fat less than half of our present school hours, or even in less than a quarter, if only we would face the facis.

They should plan to divide the school hours into two parallel sets of compulsory and of Toluntary work. In the compulsory hours the

task must be limited to that which nearly all the pupils could thoroughly master in the afforted time. Then should follow the voluntary lessons. and the student should specialize very much at his own choice. This choice of subject for half their school time would mean for most boys intellectual salvation. Could they not effect an enormous saving of energy by comprehensive and orderly schematization? In the first place, there must be a definite and official syllabus drawn up by some body of sufficient authority to secure its general recognition. They must know roughly how much English history, European history, and world history they were expected to teach. The sellabus would, of course, be graded. 'Next, in view of the sternal dispute whether history was a science or an act, they would do well to recognize that, so taught in schools, it must partake of both characters, yet without confusion between the two. A great deal of history could be swallowed whole and as rapidly as possible. Of this kind were dates, maps, and so on, and even to a certain extent the characters of great men and the contributory causes of great movements. They must make up their minds what were the essential facts : and if no existing set of books presented them, a set must be written. Boys into whom such a compact body of historical facts had been gradually rammed would be in a very different position from the average modern pupil. or eyen the average educated man. If they had only two hours a week for history they could easily build up this backbone in half the time at their disposal or less, leaving all the rest for different work-easier for the dall boy, more exacting for the clever boy, and therefore more anitable and congenial for both. Side by side with the memory-work they could work through the same period with a book like Green's Short History. They could even approach history through the literature of the period, and thef could suffer no boy to leave school without having studied and compared sources for himself. For the sake of examinations, even more than for class teaching, it was necessary that our historical

ideals should be standardized.

The value of the Teacher and the real

kind of Education

In the course of a lengthy article on the applied

in the Daily Chronicle Mr. A. C. Banson writers-The average man has a vacue sense of the benefit of education, as a process whereby it is possible to better opeself, but he wants to get it cheap He talks about the market value of a teacher, and he does not see that it is morth his while to nay a great deal to get the right kind of teachers, while it is hardly worth his whole to pay anything at all for the wrong kind of teachers Of course, whether the teaching is good or had, the process itself by which children are kindly and sensibly describined taught order and obedience supervised and goided at an im pressionable time of I fe. is of the atmost value . but the real end and aim of all education is the training of citizens What one desires to develon in all children is some consciousness of being a part of a great whole a sense of dair of work, a feeling that life is not simply a scene where one gets all the comfort one cap, without any refer ence to the comfort of others an ideal in fact of subordinating self interest to community interest

All this cannot be communicated by normal lessons. It would be of little use to draw up a sort of civic catechism and make children repeat by heart the most virtuous and high minded sentiments. It can only be taught by men and women who feel it themselves people with a real sense of daty and brotherhood. The first necessity then is to enlist such moral energy in the training of the young and this can only be done by making the teaching profession one which offers not only influence-it does that al ready-but civic advantages of an obvious kind A man who desires to marry and bring up his children well must provide himself with a situ One cannot deation where this is possible mand that all teachers should for the sake of the benefit to the State sacrifice prospects at every point It is mere sentimentalism to suggest this and all who have any strong interest in the future of the State should take every opportunity of urging the necessity of making the teaching pro

fession into a real career There is no political or social reform which would have snything like so great and far reaching effect on the well being of the country as this.

And then the question arises as to what type of education is the best for the shildren of the nation. Everyone who knows anything of elementary education must feel that our eystem is at present a very imperfect one Very little attention is paid to special aptitudes and still less attention is paid to the kind of work for which children are being prepared. Whenever it is urged that education ought to be ut literian. one is met by an onicry from high minded persons who talk vaguely of culture But what is culture? It is a nity that the word has got rather program and unpleasant associations because it is a very real thing indeed and there is no other word for it. What culture really means as an interest in ideas, in things which are not purely material, a susceptibility to higher and finer influences. But what the advocates of culture too often think is that it is an intellectual thing which can be handed out to people in packets and which consists of reading the right books and knowing a quantity of facts But culture is not an accomplishment, it is a quality and it is based upon imagination and emotion The real thing which one wishes to develop in men and women is what I can only call imag na tive sympathy Imagination by itself cannot do much, because one can have a great deal of imagination of a purely selfish kind which is tast a entisfaction to the possessor, because it adds a pleasure to life sympathy pure and simple is a higher goal to still but sympathy without imagipation tends to make one offer to other people not what they really need and desire, but what one thinks they ought to need and desire But imaginative sympathy is a very high and fine quality indeed because it gives one the power of seeing into the minds and hearts of others as well as the desire to help people along in their own way, and not merely on the lines which one prefers

How I became an author.

Mr. Frederick Harrison writes :--I must have been well on to thirty at least before I ever saw a line of mine in print. " How did I learn to write at all ?"-you ask; for I admit that I have been an arrant scribbler of late years, and bave two books now on the stocks. Well! I learned to write just by writing, as fishes learn to swim by swimming, and birds learn to sing by singing. Oaly, I did not pour out my effasions on the public, but on my friend.! That is to say, by writing them letters by the post ever since I could hold a good pen, pointing straight to the shoulder-blade, and thus became the only living calligraphist-isn't this "cony " itself, a record of beautiful nenmanship in a man entering his 82nd year ? -- ever since the year 1841. Whenever I saw a clean sheet of paper, a new pec, and a full inkstandnone of your fountain abominations for me!-1 began to scribble away automatically. Never mind sense, nor object, not even grammar. Write -write-write-as Hood's shirtmaker went atitch-stitch-stitch. It's a sort of taractells. I must write as a dancing dervish must dance. But I did not want to get it printed. I packed it off by post to a parent, a relation, a friend-some time to an enemy - and did not care a fig whether my correspondent liked it or not. No? nor what he did, or answered back. There are piles of my private and family letters in that invaluable historical work, my own Memoirs, as you may

Well! after about twenty years of this epistolary scribbling. I got able to indite passable English-at least well enough to satisfy a public which is not particular about style. How did I begin public authorship? Why, of course. T. P., I begau-as you and all eminent authors since Mosos began-by journalism. Alas! you will say, as a blackleg. I will tell you how. I was a Barrister of Lincoln's Inn with some practice and good prospects of much more. My father. a business man of fortune, intended me to become a Judge, and regarded literature as a fatal trap for a young lawyer-and so it was, and is. It would be a cruel disappointment to him to see me dabbling in any kind of literary by-play. Nor 'did I need it. I had a Fellowship of £300 a year, an allowance from him, and certain prospect of a modest fortune. Again, I was a popil of Richard Congreye, and by the year 1860 more or less of a Positivist. Now in the ideal of Comte, and ideal, I believe only carried out in practice by Congreve himself, it was positively

wicked to publish anything either anonymously or for pay. The literature of the fature—and I agree that it is a noble aspiration—is to be gratuitous and signed. That is how I slid into letters, its in life, by accident, and as a blackley —and that as journalist.

In 1859 there was the war of Prance against Austria to free Italy; and I. who had been trained by Mazzini and Saffi, became furiously keen for the Italian resorgimento, and devoted my Long Vacation from July to November to see it all in Italy. I volunteered to the Morning Post and to the Daily News to act as their correspondent in Italy. I went all through Piedmont, Tuscany, Romagna, and the Duchies, interviewing statesmen, governments, and popular leaders in each town, and sending home to the two papers, then organs of Lord Palmerston and of Lord Russell, a mass of letters. Determined to be quite free, I insisted on paying my own expenses, and declined payment for the letters. Horrid blackleg !- you may well say. Once leave the path of virtue, and one step downwards leads on to another. So in 1880 I was fairly lanuched on the periodical press-again as an amateur and black leg. When " Essays and Reviews," was published by Oxford theologians I was deeply stirred by it and urged by Jowett's friends to criticise it. knew Dr. Chapman, Editor of the Westminster Review, and I offered bim the article with the title " Neo-Christianity "-a word which I coined and have added to the language. Again I was blackleg, declining payment, as for some years I continued to do in the Westminster Beriew, the idea being that the Review must be assisted by free contributions.

Every now and then, whilst in active practice at the Bar from 1858 to 1870. I occasionally fired off letters, articles, or reviews, to various periodicals-and, on principle, gratuitous. I did not in the least want any casual donceur, and a I felt bound to my father to stick to law-and felt it to be good for me to write only when could not keep it bottled up in me-the habit was, both morally and intellectually useful, and conduced to good work. When the Fortnightly Beview was started in 1865, I found it open to me on all sorts of topics for which I cared, and that not anonymously, but still as a casual volunteer. When I married in 1870, began to have a young family about me, quitted law practice and became professor of jurisprudence, there was no reason to prevent my publishing what I liked, and also pocketing any trifles which a benevolent public cared to drop into my money. bor.

Universities and the People-

Mr Joseph King, Mr, writes to the Treez-For some time past the Prime Minister has benurged, from various sides, to appoint a Royal Commission to consider the position of the ancient Universities, Oxford and Cambridge Recent answers to questions in the House leve no doubt of the probability of the Government deciding to do this I to this connection a few statistics of the population, scholars enrolled in elementary schools, and ounversity students in the three great European nations. Germany, fond the probability of the Commission of the first three disclosed that we have \$0,000 fewer university students than Germany and 3,000 fewer than Prance. The Germany and 3,000 fewer than Prance. The Germany

Elemen University
Population tary schol- students

German Empire 60 641,275 10 224,125 57,300
France 39,378,000 5,629,906 40,000
United Kingdom 45,005,833 7,587,276 27 000

The proportion of university students to population and to scholars in elementary schools is shown by the following figures —

Students per Students per 10,000 of University 10,000 of Elementary etudente in population. scholars German Empire 94 56 10 71 France 35 United Kingdom

The stationary birth rate in Franco in qualified by the quality of the population intellectually and technically, being aspector to that of other nations. But the serious fact for us is that in proportion to our population, we have six min proportion to our population, we have six min proportion to our elementary school children we have one outerstiff with the proportion to core elementary school children we have one outerstiff serious has two Compared with Germany we stand only slightly better.

There are other facts in consection with this great question which need to be remembered our very small numbered interestly men teaching in elementary second in the small proportion of the same of the second of the second in the second in the second in the second interestly made to the second interestly great advantages of our ancient Logish nurseasities; and the relactance of the amount nuiversities; and the relactance of the amount nuiversities to adapt themselves to the wider demands for higher education. But the depress which have quested above—the chief which are supplied by the Board of Education—are sufficient to cause enterest thought among all those destring to maintain the leading position of Great Britain among the nations of the world.

Modern Languages and the Universities At the annual meeting of the Modern Language Association Miss Surgeon read a paper by Miss Tuke, Principal of Bedford College, London, in which she declared that the study of modern language even with medieval thrown in, had not proved equal to that of the classics in producing a scholarly habit of mind But she was not convinced that this defect was inherent in modern languages as a subject of study It was probably due to the fact that the training had been far from careful and thorough Possibly there was a conflict between academic and ntilitarian aims which did not exist in the teaching of classics and history What she desired from the study of language, ancient and modern, was that it should widen the outlook, and train the intelligence and the reasoning powers A language taught with those ends in view would avail, whether it was needed for business purposes or not. The study of a language trained the mind he demanding accuracy and by the use of reason ing powers in the nuderstanding of the grammar and history of the language The ontlook was widened by the acquaintance afforded with the life and thought of a race other than our own, and by the study of its literature, history, and social customs She would prefer that German should take the place of French as the modern language most generally taught in schools, because German afforded a better training for the child's mind and its literature was more easily appreciated by young persons Latin should come second. and should be taught only to those children who had a foundation of Latin Failing this change they should demand that a student who entered a university with the intention of making French his study must have a good basis of Latin. It was essential for a student of literature to know something of the historical events which formed the back ground of that literature; and he could not appreciate any one period of literature unless he had some idea of the general chain of literary development. In the honours examination in literature the student should be required to write his answers in the language he was studying. In composition a sufficiently high standard was not set in regard to accuracy and nicety of expression That criticism held good not only in repard to foreign languages, but also to Foglish. It ought not to be possible to obtain high hopours in English at a university, and yet write no-grammatically The standard set was still less adequate in regard to the spoken language. The oral test should be concerned only with excellence of expression,

THE UNIVERSITIES.

MADRAS UNIVERSITY.

Nomination of Ordinary Fellows. The Chancellor of the University of Madres is

pleased to nominate the following gentl men to be Ordinary Fellows of the Madrae University:— The Right Rev. Paul Perini, s.z., Do. Yakub Hasan Sabib Babadur; Mr. R. G. Grisev, Ma.; Reo Badar A. G. Praustarthihara Aiyar, sz., Mr. S. Swaminathan, M.A., tx. R. & B.Sa., P.M. Berat-Lawy, Mr. G. Y. Appa Rao Fantulo, sa.

I. T. Degree Examination 1913, Practical Test (Old Regulations.) The undermedicated candidates have passed

the above examination in the 2nd class:Anantasubba Row, Periyapatan Kriehnama-

char, Sirangam Sundaram Aiyar.

Cambridge Local Examinations. Mr. Wm. M. Theobald writes:—The Cambridge Local Examination certificates are not at present accepted as an entrance to the Madras University work or Government service.

The Senior Examination certificate is accepted, noder certain restrictions, by all the Home Universities and by the Board of Eduration, Medical Council, Law Society, Institutes of Civil Engineering and Architects, etc., so that to atudents who will be going to England for pressional work the examinations are of value.

fessional work the examinations are of value.

I am expecting a further supply of Regulations, and candidates who intend to appear either next July or December can have a copy on application with stamp to cover postage

Agenda for the next Meeting.

The Seate of the University of Madras will meet on Friday, March 7, next at 4-30 FM Among the more important items on the agenda are the following:—

Taking Degrees.

The Syndicate has recommended that among the reasons for which graduates for degrees may be seropted from attendence at the Convocation [Regulation 63] the following be added. "or who from some narvoidable cause is unable to be present in person."

. The fee for this exemption is proposed to be raised from Rs. 10 to Rs. 25.

Instead of the 5 days' notice required from candidates for degrees who intend to be present at the Convocation it is proposed that 10 days' police should be given to the R-gistrar.

University Lectures.

The Syndicate has recommended the following list of lectures:-

Mr. P. V. Sesbu Aiyar, B.A., L.T.—Fourier's Series and Integrals and Spherical Harmonies with application to Physics—3rd Year of Honours Course—20 lectures.—July to September 1913

Mr. R. Ll. Jones, M A.—Electrical Oscillations and Ware Propagation.—2nd and 3rd Year of Hononra—25 lectures.—December 1913 to Feb. 1914.

Rev. A. Moffat, M. A. B.Sc., F.R. S.E.—Conduction of Electricity in metals, Electrolytes and gases—30 lectures,—July to September 1913. Rev. E. Gombert, S. J.—The ware theory of

light.—20 lectures.—Oct. to Dec., 1913.

Mr. W. Erlam Smith, M. A.—The History of the Determination of Atomic Weights.—3rd Year of Honours Course.—20 lectures.—July to Sept.

1913.
Mr. J. L. Simonson, D. Sc.—The Chemistry of Synthetic Dys Stuffe.—3'd Year of Honours Course.—20 lectures with Practical work.—July

to Sept 1913.
Mr. P. P. Fyson, B A. F. L. S.—The Geographical distribution of Plants with special reference to Iodia —2nd and 3nd Year of Honours Course.— 12 fectures with 12 or more Practicals.—Is a to Mar. 1914.

Mr. W. Ras Sherriffs, M. A., B. Sc.—The Parasitio Protexna or Parasitology.—2nd year of thomours Course.—10 lectures of one hour each with 10 Practicals of two hours each.—Oct. to Dec. 1913.

Mr. Morray Surrat, D. Sc.—The Oil fields of Burma; recent advances on our knowledge and their structure and relationship; their yield and the probable supply of oil atili available; oil. field problem; improved fields; other oil. fields in and around the fedian Empire and their importance—202 and 37d Years of Honoura Course—30

lectures -July to Sept., 1913.

Mr. Ferraud E. Corley, M.A.—Aucient Federations —2nd and 3rd Year of Honours Course.— 20 lectures —Jav. to Mar. 1914. — Rev. P. Casty, S.J.—Modern Taxation and

India -20 lectures - Oct. to Dec. 1913.

Mc. Mark Hanter, M.A.-Indo-Germanic and

Germanic Philology with reference to Gothic and old English accidence.—2nd Year of Honorst Course.—20 lectures.—July to Dec., 1913 (10 lectures a term.)

Mr. J. H. Mackininsh, M.A.—The History of Criticism.—1st, 2nd and 3rd Year of Honouri Course—20 lectures—Oct, to Dec. 1913. THE UNIVERSITIES

Mr S J Crawford B A., B L tt -Old Inglish Poetry -- 1st 2nd and 3rd Year of Honours Course -20 lectures,-July to Dec 1913

Mr. S Kuppuswami Sistry, MA - Hindu Philosophy with special reference to Nyaya and Varseshika systems -20 lectures - Out to Dec

The Place of Vernaculars in University Studies

The Syndicate places before the Senate the Report of the Comm ttee of the Senate appointed on March 2 1912, to consider and report upon the position occupied by languages other than Loglish in the various courses of study and frame and present to the Senate any properls for alterations in the regulations that may be considered desirable in order to ensure more attention being paid to such language

University Studentships

Mr S Stimtesa Atyangar has given notice of his intention to move the following resoultions-That Regulations 401 to 411 be revised so as to provide for the grant of University studentships of higher value and of longer terms of years and not limited to subjects in the Faculties of Arts, Medicine, and Engineering only

That a Committee of the Senate be appointed to frame and submit set of draft regulations in place of the existing Regulations

401 to 411

1913

BOMBAY UNIVERSITY

Changes in Fees At a recent meeting of the Senate of the Bombay University, Mr Justice Heaton, Vice-Chancellor, presiding Dr Mackichan moved the adoption of new regulations regarding the fees for admission to the Arts and Science exami nation. This, he explained, was necessary owing to the recent changes in the curriculum, for it was felt that if the equilibrium between income and expenditure was to be maintained certain changes were necessary in the fees to b. levied

Briefly, the Syndicate's proposal was to estab lish the fees as follows - Previous examination. Rs. 10; Intermediate examination in Arts, Rs 20; B A. degree examination Rs 30 for pass examination, and Rs 40 for honours examination; M.A degree Rs 60; Intermediate in Science, Rs 25; B.Sc degree, Rs. 30; M Sc, Rs 100, The proposed increase in the examination fees, said Dr Mackichan would bring the fees on a level with the fees charged by other Universities Prof O V. Maller seconded and the proposi-

tion was carried after a long discussion

Lord Sydenham, Governor of Bombay, presided

University Convocation at the University Convocation held on the evening of the 18th metant. The hall was After the conferring of the degrees His Txcellency delivered a lengthy address from which we give extracts on another page

CALCUTTA UNIVERSITY

Lord Carmichael confers Honorary Degrees A special Convocation of the Senate of the Calcutta University was held at the Senate House, College Square

In the absence of Ris Excellency the Chan cellor Lord Carmichael as Rector, presided at the function and delivered the diploma of the Honorary Degree of Ductor of Science to Dr Andrew Russel Forsyth and the diploma of the Honorary Degree of Dictor of Literature to Professor Hermann Oldenberg

Sir Tarak Nath Palit Kt, upon whom the Honorary D gree of Doctor of Law was con-

ferred was absent and unable to receive the diploma from His Excellency The hall was decorated as on the occasion of the usual Appual Convocation The seats were

arranged in the same way and a procession was formed of the Registrar, the Members of the Syndicate, arranged two and two in order of seniority His Excellency the Rector, the Vice Chancellor ex efficio Fellows arranged two and two in order of seniority and the ordinary Fellows arranged in the like manner, the procession entered the hall Her Excellency Lady Carmichael arrived accompanied by the Hon Mr Gourlay, who was in Military uniform and an Aide de Camp. The Registrar presented to ber a bouquet

Annual Meeting of the Senate

At the close of the Convocation, the annual meeting of the Senate was neld with the Vices Chancellor in the chair A large list of formal busicess was disposed of including the constituting of the different faculties for the year 1913. of the Board of Accounts adopting of the annual report of the Synds ate and so on Dr Brosendra Nath Sil MA, was elected University reader in Parlosophy, and Dr D E Rose and Mr. G F. Shiras representatives on the Syndicate.

ALLAHABAD UNIVERSITY Courses of Studies.

Courses of studies for the preliminary scientific examination for the Degree of Bachelor of Medicine and Bachelor of Surgery, to be held in Allahabad form Monday, the 8th September 1913, and on the following days

Chemistry :- The Modes of Occurrence, Preparation and General Characters of Methane, Ethane, Ethylene, and Acetylene, and their derivatives, viz., Haloid Compounds, Alcohola and Ethereal Salts, Ethers, Aldehydes, Ketones, Acide, Amines, Starch, Sugar and the processes of Fermentation, Urea, Benzines, and its more important derivatives, Glycerine and Saponification. Boron. A brief description of the following metals, outlines of the most important metallergical processes, important compounds, Use and Tests : Sodium, Potessium, Ammonium, Calcium, Magnesium, Zinc, Marcury, Alaminiam, Copper, Silver, Iron, Tin, Lead and Antimony. Nature of Combustion, Structure of a flame, Cause of Luminosity, Oxidation and Reduction, Blowpipe Flame and its Use, Acids, Alkalis, and Balts, Neutralisation.

The general methods of the preparation and purification and the Principles of the Ultimate

Analysis of Organic Substances.

Students shall also be required to pass an additional practical examination in Elementary Yolumetric Analysis, riz., Thration of Acid and Alkalis, Estimation of Ferrous Salts by means of Potassium Permanganate, Estimation of soluble

chlorides and carbonates.

The following book is suggested:— Remeen's Organic Chemistry (Miscmillan.) Biology.—The Syllabus prescribed in general Biology for the Intermediate Examination of

1913 in addition to the practical work of the dissection of the rabbit.

For the preliminary scientific examination in

1914:-

The examination will be held in Chemistry only and the course of study in that subject will be the same as in 1913.

THE PROPOSED HINDU UNIVERSITY.

TECHNICAL EDUCATION.

TYPEWRITER TOPICS.

The writing gatchine industry has very rapidly dearloyed and the spirit which now pressite in Europe in the manufacturing as well as the selling and, is a sign that the basiness therein fast moving towards the stage it has resolved in America. There are now two high manufacturing countries actively working in all mark three two are the United States flowed the two three two are the United States flowed the stage and the orpopose to give some interesting notes about the mechanism of the various machines which may be of some interest to the typestiting student, illustrated whereer presides

The following machines are represented in the Madres market:—The Remington, The Yost, The Underwood, The L. C. Smith & Bros. The Oliver, The Armstroug, The Smith Premier, The Empire, The Imperial, The Blickensderfer and the Royal Bar-Lock.

There are vations other makes too numerous to mention. But we shall gire the names of some of them:—The Monarch, The Score, The Victor, The Visigrab, The Corous, The Triumph, The Scott, The Hummond and The Erits (Hijoz).

Mr. Albert J. Sylvester (lately of the staff of the Underwood Typewriter Co., London), who was in Madras in connection with the Public Services Commission, gave a demonstration of high speed typewriting on the Underwood Type writer in the Anderson Hall. There was a very large gathering, and Mr. V. V. Srinivaen lyengst presided. Mr. Sylvester typed an unseen pas sage, selected by the Chairman, at the rate of 89 words a minute, and he typed a second passage at 97 words a minute. Then he typed a passage from memory at 176 words with only a very small percentage of mistakes. In the blindfold test which followed Mr. Sylvester succeeded in typing a passage dictated by the Chairman with scarcely any mistakes.

INDUSTRIAL EDUCATION IN BELGIUM.

About twenty-five years ago the first trade school was opened in Liege; its purpose was to teach the principles of dressmaking. Since that

time the growth and development of trade schools has been most rapid. At present almost every existing trade has its training school for the young artisan Schools exist for training the iron worker, the wood worker, and the workers in zinc, lead and leather, the decorative arts plumbing and house painting are also taught. If the present rate of development in this direction continues, Belgium will soon rival Germany, in which country these branches of instruction are probably superior to those of any other European In the matter of trade schools in country Belgium the province of Liege, according to the American Consul there merits particular atten tion, as it is especially in advance in this direc The long list of existing trade schools has lately been added to, through the opening recently of an institution for teaching printing, book binding, hthography, etc It has been organised under the patronage of an association known as the Chambre Syndicale des Patrons -Imprimeurs del Arrondissement de Liege This institution is to produce first class printers, lithographers, and book binders, giving them sufficient general instruction to enable them to become efficient and up to date artisans school is under the control of the executive committee, consisting of three members, repre sentatives of the Government, the province and the city of Liege respectively The staff of teachers comprises twelve members, namely, one director, one professor of ornamentation, seven of typography, one of book binding, one of lithography, and one of French Five years are required to complete the course

BENGAL TECHNICAL SCHOLARSHIPS, 1913

The Government of Bongal are prepared to receive applications from estatory natives of Iodia for a State Technical Scholarship tendles of Ecision America for two years, of the subject of £150 a year, exclasive of fees payable to the institution where the scholar will study intravelling expenses. The subject of £150 a year, exclasive of fees payable to the invalidation of the payable of £150 a year, exclasive of fees payable to result of the payable of £150 a year, exclusive of £150 a year, exclusive of £150 and £150 and

MADRIS TECHNICAL SCHOLARSHIPS, 1913

It is notified that a Stata Technical Scholarship will be swarded in the Madras Frendership will be swarded in the Madras Frendership carried by the Madras of the State goods industry Candidates of the Industry should submit their applications for the scholarship to the Director of Public Instruction, so as

to reach him on or before the lat March 1913 Other things being equal, preference will be given to graduates in arts who have specialized in Chemistry

COCHIN TECHNICAL SCHOLARSHIPS, 1913.

The Dewan of Cochin considers it absolutely necessary to constitute a separate Mechanical Department with a well qualified full time Engineer at its head. He is to be in ' profes sional charge-(1) of periodical supervision of the I ramway, (2) of the workshop at Chalakeddy to be called the Central State Workshop, (3) of all electric and telephone plants, and (4) of all motor cars boats and machinery, eg, pulso meters, pumps, dredgers, etc. He is to get a salary of Rs 400 to 500 a month and his head quarters will be at Chalakuddy For this post of Mechanical Engineer a new man is to be appointed for a period of three years within which time the Durbar hopes to get one of their own men trained in Europe to take "responsible charge of the department' A scholarship for the study of Mechanical and Electrical Engi neering in Europe is now offered for which applications should be submitted to the Dewan not later than the let of April, 1913

Examinations in Misore

The institution of the Entrance Ersmination, Accounts Branch Public Works Department, as one of the Local Service Examinations, has been sanctioned by the Mysors Government The rules proposed for the conduct of this examination have been approved

SHORTHAND ASSOCIATION, TRIPLICANS

At the second anniversary meeting of the Shorthand Association, Triplicane, held recently in the Presidency College, interesting speeches were delivered by the Honble Mr. Y. S. Srinivasa. Sastriar, and the Honble Sir Harold Stuart on the reporting profession

SOME OF THE GRIEVANCES OF

SECOND GRADE COLLEGES.

That, in the existing state of education in the Prendency, the second grade Colleges are fulfilling a useful purpose has been recognised. These institutions have, of late, advanced considerably in efficiency, and, in spite of the dissolities under which they labour, are doing good work, it would, therefore, be just and proper that they are recognised to be as much integral parts of the University as the first-grade Colleges.

The statement recently issued by the Committee appointed to consider the question of the Vernaculars above that there are now in this Preadency 28 second-grade Colleges with 2018 students (in the first and second year classes) as grants 14 first-grade Colleges with 3018 students, and they can, therefore, legitumately claim a larger and more intimate share in the administration of the University than they are at present allowed.

The first-grade Colleges seem to have a monopoly of the seats on the Boards of Studies; they also furnish almost the entire body of examiners. The second-grade Colleges are thus completely shut out from participation in a work in which they are as much interested as the first-grade Colleges, it is certainly not fair to make the first-grade Colleges appropriate to themselves the sole first the standard of examinations. These are questions in which the second-grade Colleges have equal voice.

There is yet another matter in which the second-grade. Colleges are practically ignored, One searche in vain the recent list of nominated Fellows for any recognition of these institutions. Of the eight appointment of the second-grade Colleges. Perstagrade Colleges are represented on the Scaate by more than thirty nominated Fellows, while the second-trip one control of the second-trip nominated Fellows, while the second-

grade Colleges have but five to represent them. What is more bitter is that busy lawyers who have no breathing time to spare and men in the street without any qualification or claim are nominated in praference to the legitimate

are nominated in preference to the legitimate claims of the second-grade Colleges, who by their position, education and other qualifications are emineuity fitted to partake in the administration of the affairs of the University.

In the true interests of higher education we would plead for greater confidence in the second-grade Colleges and closer union of the University with them. It would be sound policy to regard them not as aliens with no privileges, but as members with the full rights of citizenship and treat them accordingly.

MADRAS STUDENTS' ADVISORY COMMITTEE.

Circular No. XVII. Admission of Indian Students to the

INNS OF COURT.

The attention of Indian students is drawn to the modifications which have been recently adopted in regard to admission to an Inn of Court.

- The examination list set out in the Handbook (13th Edition) has been amended in two respects—
- (a) The Preliminary examination for the Degree of M.A. conducted by the Joint Board of Examiners of the Universities of Edinburgh, Glasgow, St. Andrews and Aberdeen is only accepted for students whose native language is English.

(b) The Oxford or Cambridge Senior Local Examination is only accepted when two of the Sections in which the candidates passed are certified to be—

- (i) English Language and Literature.
- II. In lies of the certificate from a Collector or Deputy Commissioner or Political Officer bithertor required from a Native of India a Certificate from the Secretary for Indian Students appointed by the Secretary of State will have to be obtained.
- It will therefore be necessary for an Indian student in the Madras Presidency who desires to be admitted to the Bar to apply in the Bris instance to the Secretary, Madras Students Admires Committee and to facilities to the President Students.
- Advisory Committee, and to farnish to him—

 (i) Testimonials of good character from his
 Professors and Teachers, whether in a college of
- a school, and

 (ii) A certificate signed by one or reresponsible persons, whether Government officials
 or otherwise, who can speak as to his character
 and standing.
 - These will be forwarded to the Secretary for Indian Students at the India Office, who will also require to see the student in person. It the Secretary for Indian Students is then satisfied that be ear recommend the student for admission to the Bar, he will give his certificate to that effect.

ARTHUR DATIES,

February 1918. Naisear Students' Advisory Committee.

editions

Reviews and Hotices. BY HENRY ALLSOYP, B A (G. BELL & SONS)

AN INTRODUCTION TO ENGLISH INDUSTRIAL HISTORY.

2,, The study of this important branch of History was hitherto felt beyond the reach of most young people, partly due to the fact that the available text books were far too learned and academic and also expensive, but this book is intended to supply a long felt want. It is undoubtedly an interesting, simple and sugges tive introduction to Industrial and Economic Ristory It presents only the essential features The author attempts to answer the questions "In what ways do men get their incomes now? How have Luglishmen obtained their living from the earliest times ? How did their various trades arise ? How is that great industries like the Woollen Industry are settled in certain definite districts? What is the history of the working classes?" The author has admirably succeeded in tracing the process by which England has become so vast, so wealthy so powerful as she is at present. The growth and decay of the English Manorial system with the parallel growth and decay of the guilds, the growth and decay of the domestic system which succeeded it are all portrayed in simple language The rise of the trading companies, the age in which factories and large scale production prevailed, the age of wages, of rent, of profit and of interest are lucidly described Thus cuildren are beloed to know something of the age to England when the lives of the purple were regu lated by local organizations like the Manor and the Guild, next of the age in which the State regulated trade and industry by means of what was called the Mercantile system and next of the age when it was held wrong for the State to interfere, when individual liberty and free competition were glorified. The children are helped to realize that in the present age people have once again began to believe in State Regula tion and that they think at the present day less of the nation as a whole than of the well being of each of the individuals comprising the nation and that the conviction is gaining ground that if only all Faglishmen are healthy, well fed, well clothed and decently housed, if all Englishmen have leisure for education and recreation then England will be wealthy, have many ships and prosperous industries and be We heartily commend the very powerful"

JUNIOR SCHOOL HISTORY OF INDIA, BY E W THOMPSON, M A (CRRISTIAN LITERATURE

SOCIETY, LOYDON AND MADRAS) As 12 The second edition of this book is before us. The aim of the author in writing this Januar History is to make it a 'truly scientific introduction to the study of Indian History so as to enable the beginner to pass on without a dislocating shock to those standard works which deal more folly with men and events so briefly noticed in these pages' The book which nims at this ideal is no doubt a go done lut we are sorry to notice that this otherwise excellent book is marred by number of defects. The bistory of South India during the ' Hirdu" Period 'it may be noted in passing it ought be called the Pre Muscalman Period) is disposed of in about 24 lines. On the other hand many obscure names and events are mentioned. Why worry children in the Lower Secondary forms with Alptigio, Bracawen, Adayer Battle, Gibarwar, Guhilas, Euthydemos, Kolusha, Laki nubh, Battle of Tezin, Visaladeve We are corprised that a number of facts calculated to interest children and fill their minds with feelings of natriotism are altogether omitted. One I oks in vain to know something of the extent of Asoka's Empire and of Samudragup as of he system of edministration in Northern India in the days of Chandragupts and of South India in the days of Reparaga Chois Passing on to the Malammaden India, we find that even the name of Krishua Devaraya is not mentioned Siraji's "murder" of Afzul Kl an is graphically described but not one word is said about the statesmanship of the Maheratta chief The author, with true missionary spirit, has taken very kiedly to the Brahmins in India! Not only does be tell cock andbull stories about priests and their multiplying sacrifices for their personal aggrand zoment, he wants the school children to believe that the Indian Mutiny was caused by the "marchierous priests who did not want the people of India to change old customs, however bad they might be" going about "telling lying tales that the Government was trying to spoil caste" We have the andoubted testimony of Lord II berts himself to say that the greated cartridges were wrapped in paper smeared with the fat of the pig and the cow and yet we have it stated seriously in this book that a story went round that the cartridges were so greased We succerely trust that these defects will be removed in the subsequent

book to every teacher of History 1AMERICAN, INDEPENDENCE AND THE FRENCH REVO-LUTION (1700—1801)—COMPLET BY S. E. WINDOLT, M.A. (GEORGE BELL & SONS, LTD.) 1e. net.

This book belongs to a series of English Ristory Source Books published by Mesers. Bell & Sons. History teachers all over the civilized world are called upon in these days to use Source Books as an adjunct to the History lesson. The kind of Problems and Exercises that may be based on the documents are admirably illustrated in Kentinge and Frayer's History of England (A. & C. Black). It is urped that source books enable the pupils to fake a more active part in the History lesson. The volume before as contains extracts from the correspondence of Catham, Home Office Papers, Letters of Juniue, Cowper's Letters, 'Task,' London Magazine, Gentleman's Magazine and Annual Register. The majorty of extracts are living in style and are arranged in chronological order. We regret that the book is not illustrated.

HIGH ROADS OF GEOGRAPHY: ROYAL SCHOOL SERIES, EDITED BY EDWARD PAREOT, LL. D. (THOMAS NELSON & SONS).

As companion volumes to High Roads of History the enterprising firm of Messra, Nelson & Sons have brought out these volumes on Geography and aix books of this series are before us. They maintain the high level of excellence of Mesars. Nelson's books. The introductory book contains about thirty letters supposed to be written by a father touring round the world to his children at bome whom he left behind. These letters have an attraction quite their own. Ten of these letters are devoted to India, Burma and Ceylon and Indian children in the Lower forms will be delighted to read them. They will be glad to be told that foreigners think that Indian children are always bright and merry and that they are very clever indeed and that they are much fonder of their lessons than English boys. The descriptions of scenery, towns and of people are throughout true to nature. The books are all graded and the authors have taken great pains to put in them just those things which best appeal to children and leave a permanent impression in their minds. Another striking feature of these books is that essual relations are very clearly explained. In Book III, the lesson on "The Heart of Empire" is actually a lesson on the growth and development of towns. After explaining the statement that London is a nation and not a city, the author points out in charming and simple language what it was that contributed to its greatness. Book V. which deals with Britain Over-seas contains several chapters devoted to India. It is gratilying to note that it is a very faithful account of the country and its people and is written by one who not only knows the country well but understands her people and their minds. Indian children's heart will be filled with pride when they read that their sacred Ganges is the most important river in the world and understand the causes for it. The lessons on 'Life in India' is delightful reading. The influence of geographical phenomena on life is clearly brought out. Children are told why it is that there is in this country no great incentive to exertion which obtains in Europe,' and that though custom in India is stronger than law, life becomes a kind of gamble breeding improvidence Speaking of Madras the writer says "the other parts of India are fond of referring to Madras as the benighted province; nevertheless it shows better than any other part of India the results of civilized Government and in education it takes the first place. Nowhere in ladia are the natives more eager to attend the schools and colleges than in Madrae." Page 188 contains the picture of a temple and it is called 'Parthan Urith temple.' Such a name we never heard of before in Madras! From the picture we can easily see that it represents the Parthasarathy temple at Triplicane! The books are all profusely illustrated and some of illustrations are the ficest, rarely met with in school booke. The maps in the books are faultless.

PREPARATORY ARITHMETIC, BY C. PENDLEBURY. (GEORGE BELL & SONS). 1s. 6d.

The book is written in accordance with the recommendation of the Mathematical Association on the Traching of Arithmetic in Preparator Schools. The principles of the subject are replained clearly, the crecises are taken from the interesting men and must consequently men and must consequently men and must consequently men and must consequently men and must be a made to be a made of the consequently and the verification of results is lossisted upon. We should like to see more of correlation of Algebra and Becometer with Arithmetic than is indicated in this book.

Examples in Abithmetic, Part II, by Hall and Stevens. (Macmillan'& Co.). 22.

These examples are taken from "A School Arithmetic" written by the authors, and are

published separately because of the growing feeling among teachers that it is better to place a book of more examples in the hands of students and to gree their own ord explanations of princeples than to put a complete 'text book into their hand. We are glid to note that this book is not a mere collection of examples but a certain amount of the text has been reproduced wherever the examples would not be intelligable by themselves. Also some examples which are intended to be worked by special methods are worked as models in the text.

MATRICOLATION GRAPES, BY HUKAM CHARD M.A., B.Sc., First Professor of Mathematics, Khalsa College, Aubitsan. (Printed by Skinitas Vardachari & Co., Madras)

This is an elegant and well got-up little volume of 60 pages and is intended for the use of candidate preparing for the Matriculation examination of the Funjsh University. The linear graph of $y=mx+\epsilon$ is exhastively treated and amply illustrated. The illustration consist of (1) solid and the property of the consistency of the consist

The book is in every way satisfactory and will certainly put into the minds of beginners the right ideas and uses of graphical methods. We un hesitatingly recommend the book to all students preparing for the School Final Eramination in the Presidency of Madras and elsewhere.

DOMESTIC ECONOMY, BY MRS CATHERINE F DEIGHTON, (HIGGINSOTHAM & Co.) Price Rs 18-0

The nutroctive and interesting publication of the Dimentic Economy by Mire Catherine F Degliboo, the well known author of Practical Housewifery, The Hospital in the Home, etc., and formerly Dimentic Economy Teacher, Loudon County Counic, consists of three parts dealing with (1) General and Personal Hygene, koods and Pool Stuffs; (2) Home Normans, and (3) Needlework etc.

The author begins with a clear description of the composition and structure of the human body, a most wonderful and complex organism, a thorough knowledge of which would give the readers and of ralenable information regarding the useful functions the human body is performing. The carried author then gives a long and fairly coacraited the structure of the property of the carried author then gives a long and fairly coacraited the structure of the structure of the carried author then gives a long and fairly coacraited the structure of the carried author then gives a long and fairly coacraited the structure of the

nected account of the functions of the important organs of the human body such as the heart. stomach, the lungs etc. The uses of food, the different food stoffs, the objects and different methods of cooking food, uses of water, composition and purification of water are then dealt with in minute detail The second part of the book relates to the infantile management, children's ailments malaria, cholers dycentery, etc. In the third part the author gives some interesting bints on laundry work and the teaching of cookery Mrs Catherine Deighton has selected a fascinating and almost fresh held of metruction and has successfully striven to give excellent education with great discretion It is certainly to her credit that she has compressed a huge mass of information on very many important matters of daily experience into a compact and fluent narrative Much of the information collected by the author is valuable. The chief merit of the book hes in its educating mission. The author has really done a distinct service to her fellow beings who hunger and thirst after the knowledge of Domestic Economy by placing within their easy reach this praiseworthy publication The book is well turned out and made attractive through the care bestowed upon its production by the well known Publishers in Madras, Messrs Higginbotham & Co.

India Strikathangel, by C. S. Ramaswami Artae (Publiseed by the Author Trikli Cane, Madras.) Price 8 Ac.

This small book is a collection of the biographies of eminent Indian women who were famous in the history of our land on account of their having been the ornaments of virtue, heroism, learning, philanthropy or patriotism It contains mostly the lives of Rajput queens, viz, Padmini, Sam yukte Tara Bu Ram of Jodhpur, etc. Although the work is a translation from the 'Heroines of Ind' in English by Mr Manmatha Nath Dutt, MA, of Calcutta the style is homely, popular and pleasing and Mr Ramsswami Aiyar has spared no rains to make the language run smoothly and has drawn the moral towards the conclusion of each story The illustrations are a noteworthy feature of the book and it may be used with considerable advantage in girls' schools, while it is bound to be entertaining and instructive for the "Zenana," in the cause of whose education Mr Airar has been doing excellent work as editor of the Tamil Zenana Magazine

THE WINTER'S TALE: A TAMIL DRAMA, BY K. VEKKATARAMA AIYAR, B.A. (PERLISHED BY THE HENDU EDUCATIONAL TRADING CO., KUMBAKOJAM). Price 8 As.

Mr. K. Venkstamms Aiyar has already been known to the Taml world of letters through his many translations and adaptations of English works, such as Millou's Sansen Agonists and Lamb's Tules from Shakespeare. This dram is another of his contributions to Tamil literature. It is an adaptation of Wister's Tels, one of Shakespeare's conselies. The style is felicitous and charming and the author has been eminently mocessful in preserving the spirio of the original successful in preserving the surface or possibly as in the English drama. The names of the characters correspond to the qualities; the language used is quite in keeping with the society to which the characters belong.

LITERARY NOTES.

"Roget's Thesaurus" is a new and chesp edition of the well-known "Thesaurus of English Words and Phrases" of Dr. P. M. Roget, improved and enlarged, parlly from the author's notes and with a full index, by Mr. J. L. Roget and his son, Mr. S. R. Roget, [Longman's, Green and Co., 28 64.]

Mr. T. Fisher Unwin amounces among other works a life of "Allan Octavian Hume, C. B.," and an account of his work in Lodis, by Sir William Wedderborn.

Among the books and pumphlets registered in Assem during the quarter ending December 31, 1912, was a historical research work on the Assemess language by Mr. Debananda Bharshi of Diprogarh.

Mesare Macmillan announce that they will begin in April the publication of the Bombay edition of the works of Mr. Redysrd Kipling in prose and wres, newly arranged and corrected by the suther. This addition will be limited to 1,030 copies, and will county twently-three volumes, two of which will appear every swo months. The price will be one that the product of the section will be sold as th

The total of publications issued last year amounts, according to the attricted table contained in the Bookselfer, to 12,859. Fittons accounts for 2,200, to which may be conjoined 821 publications of children's books and minor fiction. The next largest figure is that of theology, which is responsible for 334.

The Adhyaima Ramayana, or 'The Esotetic Ramayana, translated into English, by Rai Rahador Lala Bujosah, has been published by the Paoini Office Allahabad, 1913. (Price Rs. 3)

Messra. Nelson have published an attractive new edition of Captain Marrya's prime old favourisfor boys, and indeed girls also, "Masterman Besty" (26 6d) It has eight good coloured illustrations, and a large number of ingenious drawings in the margin of the well-printed pages.

The Library Missellany, Baroda, is a unique monthly clude by Mr. J. S. Kodalkar, Ma, Ma, bring the first and only one of its kind in todabring the first and only one of its kind in todaits pages are full of unteresting and instructive articles. It gives us a virid account of the work of the Free Travelling Libraries of Baroda-The Dacos Review for Dacember is full of

references to the glorious prospects of the "Model University at Dacca, "Educational Ethics" by Professor N. O. Baserjee, "The O.J Pressing Industry in Bengal" by Prof. Rydas Kamburger, the "Glories of Sanskrit Literture" by Mr. G. O. Mukherjee—each deserted notice.

Messrs. Hudder and Stoughton offer prises of 2259 to India and each Deminion for the best novel The well-known novelus Mr. A. E. W. Mason will adjudente in the case of India

The Home papers make the interesting amounteement shat the Hydrides of the Cambridge University Peres propose to publish a comprehensive propose to the model of the Cambridge modera hustory. The work, as projected, will be completed in six volumes of about six such do the main perode. Ancient Iodis, Mahaemada India and Britals Iodis under the editoreship, the publish of the publish of the publish Iodis under the editoreship, the publish Iodis under the description will be extended to echolors who have seen to be a published to be published to be

Mesers. Jack announce another twelve volumes of "The People's Books" to be published immediately. These will include an "Atlas of the World" in foll colour by Bartholomew of Edinburgh. This will be

the first time that an Atlas is colour bound in cloth has ever been offered at this price. Other rolumes include "Turkey and the Eastern Question" by John Macchaold, "Toology" by Professor E W MacBride, P R S. "Creil Rhodes by Jan Colvin, "Psychology" by H. J. Watt, M. A. PHID, "Nietsche" by M. A. Magge, P.H.D. "The Bolte in the Light of the Higher Criticism" by Rev. W. F. Adency, M. and Rev. Professor W. H. Bennett, Litt, D. and others

"The Indian Constitution" by Mr A Rangasamp lyanger, Ba, h. T., Second Edition, considerably enlarged and revised, (Demi Octavo, over 500 pages) has lust been published and can be had of the Hunds Office (Pries Rs 3)

Capitan James Gunnigham Grant Def occupies a promissus place among the authors of the flattory of India and of the Indian People. If ill History of India and of the Indian People. If ill History of Indian People and Ill History of the Indian People and Ill History of the Indian People and Ill History of Indian People and Indian People

Mr Maurice Hewlett has a new volume of verse appearing with the Macmillans under the title 'Helen Kledemed and Other Poeme' I will be welcome, for he writes poetry with as much force and polish as he writes prose

"Wordsworth" by E R Snesth is an elaborate attention of Wordsworth as a poet of nature and many training out the inflaces of heredly and confirmation upon his works. Wordsworth's stitlinds towards science long conted, now accords with the views of modern scientific philosophy, which now adays becomes transcendental.

"Andung, Accombing and Banking "by Frask Dorlet and Backing Darrie is an authorisaire book of real value Diagrams, figures and explaint book of real value Diagrams, figures and explaint toos make the andulung part quite clear; also the author bas referred where occessary to legal case. The bunking section is locid and practical, being far clearer than in books which one remembers having studied. It should be in every besiness or bushing fibrary and would be fielpful as a cure base for examinations. The book is published as its by

"The Education of the Women of Indis," by Micos Q. Cowan The increasing attention which is being deroted in this country to the problems of female education renders a book of this character pecularly welcome (Messer, Ollphant, Anderson, and Ferrier, 26 64.) "Adam Ludasy Gordon" The 12 a citiking tribute by Eduth Bumphrs and Dougha Sladen (Contable and Co. London) to the great of the Australian peek, Adam Ludasy Gordon of the before his fame even that of Kendall, who occupies a proud place in English literature, pales into missinglements.

"Domestic Economy" This is a valuable work produced by Mrs Catherine P Desgiton who has thoroughly mastered her subject, and writes with firmness and authority, (Higginpotham and Co)

Indian Educational Potes MADRAS

PRIZE DISTRIBUTIONS.

European Girls' School, Royapettah — The annual distribution of prizes and treat to the pupils of the European Girls School Royapettah, took piace in a specious shaming a erected for the purpose in the comvenued advantage and the purpose in the com-

the Enriquent Units School Interpretate, took pines in a pround adjoining the Currie of the Ferification of the B \(^1\) M. There were a good number of priests of the B \(^1\) M. There were a good number of priests of the B \(^1\) M. There were a good number of priests of the B \(^1\) M. There were a good number of priests of the B \(^1\) M. The man of the San Tono Mission presents as a first of the San Tono Mission presents and the San Tono Mission and the San Tono Mission and the proposed that after which the Rev Table Mission San San Tono Mission and the San Ton

W. M. Sunday School.—The distribution of prices to the pupils of the Wesleyan Methodist Sanday School, took places in the Wesleyan Endand, Pophams Broadway, Georgetown The Rev J Cooling was in the chelr, and Mrs J. R. Henderson distributed the prices.

The proceedings commenced with the singing of a bym and was followed by a prayer. After an interesting dialogue by the pupils on "The prevention is better than ours" the Supernetendent read the Annual Report.

Mrs J R. Henderson then distributed the prizes to the pupils, and gave an interesting speech Rev Mr. J Cooling congratulated every one connected with the institution and the interesting function terminated,

Madras Christian Collegs School.— A pleasus metalinguas bela the Anderson Hisl, when Es and Rad Gur A C Franscharthians Jyer, Impector of School, and the College Chool. All the stackers of the behavior of the College Chool. All the tackers of the behool, including the Pracelysis and most disappedesses, were present in their randomical robor, order by their respective class teachers, and when all were assembled in the hall, Dr. Ethnore Degas the way assembled in the hall, Dr. Ethnore Degas the School Rad College Chool. All the college Chool Rad Chool Rad College Chool Rad College Chool Rad Ch

distributed the prizes, after which he asked them to work steadily and spoke about the responsibilities of students. The meeting terminated with a vote of thanks to the Chairman proposed by Dr., Henderson and supported by the Rev. G. Pittendidgh.

Bitale Secondary School, Bauganapillo.—The Pice distribution ceremoy of the above achool core of Fried distribution ceremoy of the above achool core of Fried distribution. The secondary was a secondary that Bahadet. Navely life Asad Khue Bahader. The school was decorated with sever-green, Rag and festions for the occasion and presented a very dislighted of the annual report by the Supervisor of Schools of the Secondary School, 'Uliuse Emendary School, Girls School, Illasion and Frivate Schools sader the aid of the Action of the Company of the School of the secondary School, 'Uliuse Ementary School, Girls School, Illasion and Frivate Schools sader the aid of the action of the second school of the secondary school and the schools sader the separation of the the past official year. The private were then given away to the boys, and ofter as intensity speech by the

Having distributed the prizes, the Chairman made some appropriate remarks and the meeting terminated,

The Medras Medical College,—The distribution of priss and cruitaness of nonce to popils of the option of the cruitaness of nonce to popils of the prise and cruitaness of the cruitaness of the

P. S. M. School.—The selection of the Feender, Dr. and annual feet and the School of the Feenders of the Feend

The Annual Report was read by Mr. M. R. Dordinesory, program, A., and L. Manager and John Boerstry. The Chairmen them distributed the prines to the price-fluents in all the forms of the Bight School and to the beye who competed ascessfully in the morning profit. The paintees of the industation them alloyed a Greater profit in the principle of the industrial them allowed to the profit of the

English and Sanskrit College, Wirsg -The distribution of prizes to the students of the Maharajah's English and Sankrit College took place on the lith inti-in the former institution. The function was fre-sided by Mr. F. O. IL. Fowler, I. C.S., Trustee to the Bannatihanam. The sitte of the town, including the officials and the members of the Har were present on the occasion, Han Rahadur K. Ramanniachati, the Principal read the reports for 1911-12 which bore testimony to the good and substantial work done by the institutions during the year. The numerical strength of the English College including the Secondary department during the just academic year was 672, which increased to 935 on the Sist of January last. The receipts of the institution showed an increase of from Bs, 26, 411-2-0 to Rs. 35,121-6-8 while the charges also rose from Rs. 41,402-6-10 to Rs. 45,710 11-11 during the year under review. The College produced brilliant results in Mathematics and Philosophy. all the candidates sent up for these branches, having passed the examination. The results in Chemistry, Sanskrit, Telogu and English were also satisfactory-Respecting the Sanskrit College the report states that the examinations for which the institution is authorised to train candidates are (1) the Siromani examination to Yyakarana, (2) the Vidwan examination in Sanskrit and Taluga, the former being taken as the principal language.

along, the former being aken as the principal integrates Mr. F. O. H. Fowler, in bridging the proceedings are described, and a sight compliment to the control of the contr

The A. M. College, Madura.—The annual distribution of prince the American College, Madura, and hold on the 17th instant in the Amenably Holding and the Manual College, Madura, and holding the College, Madura, and the College American College, Madura, and the College American College, Madura Santalia College, College, Madura College, College, College, Madura College, Col

Chisholm and to all these present. The function was brought to a close with the singing of the Astional Anthem.

The Sewmanhtz High School, Madura.—The Sewmahtz High School Maders, presented a rule appearance on Saterday the 13th instant, when the 9th appearance on Saterday the 13th instant, when the 9th Anniversary and the D stributes of Prizes to the data entering the 15th Anniversary and the 15th Anniversary and representative publishing depthlemen present, and representative publishing depthlemen present,

There was Public-Speaking by four pupils of the Sixth Form on (1) The Dignity of Labour (2) Female Education (8) The British Rule in India, and (4) Loyally to the British Ray, The Lower School Pupils recited short action sones on " Play Time " "The Train " &c. and these were much appreciated The Primary School Pupils enacted a Tamil Drama-"The Lost Camel" Then a farce entitled "The Cadi and the Robber" was per formed by the Third Form students Lastly bot by po means the least appreciated of all was the exacting of a short Drama "Alfred" by the pupils of the Fourth Form Mr A Govindaraja Mudaliar, R.A. L.T the Headmaster of the High School announced that for Prize-Sreaking S Ramssamy who spoke on "The British Rule in India" had been awarded the First Prize and M Siveourenathan who spoke on " Female Education" the Second Prive.

This over the Headmaster read his Report for the year ending 31st listed 1912 From the Report we learn that it was chiefly through the exertions of Mesers. Venkaischalspathl Alyzr, Seshia Bhagavathar and others, that the Mesagung Committee real red a Permanent Endowment of Rr 25 000, which now adds greatly to the stabulity of this popular institution,

The Chairman after giving away the prises to the various Price winners addressed the address in a interesting speech. He concratelated the Cowrashitz Babah for having successfully managed the institution for 27 years and more and more successfully every year. Though the downstairs were a tricklimist warring Class and the contract of the contract of

The Chairman and Dr Marsden were garlanded Mr J Ramier B.A., B L., Secretary of the High School proposed a hearity vote of thanks to the Chairman and to Dr Maryden.

The Headmaster proposed cheers to H's Majesty the Ring Emperor and to the Collector shot the gentlemen present on the occasion, which were lustify responded to With the singing of "God Eare the King" the interesting fanction came to a close.

Elementary School Gardening The Government have approved the distribution proposed by the Director of Public Instruction of the grant of Rs. 10 000 for the provision of elementary school gardens The amount has been distributed as follows—

Ganjam, Rs 400, Vizagapatam Bs 400 Godavari, Rs 400, Klatna, Rs 820, Gentor, Rs 400, hellore Re 400; B-liery R. 430; Assatspur Re. 400 Candlasses Be. 400, Karool Be. 400; Chesplerer R. 400; The Nightle Re 250; Colmbetor R. 400 Salen, Ps. 400; Auth Arcel, 1s. 400; Chittore R. 400 Salen, Ps. 400; Trichisepely R. 400 Seeth Arcel Ps. 400 Banned, R. 400; Mader R. 250 Timerelly R. 470; Mather Re. 600; Mader R. 250 Timerelly R. 470; Mather Re. 600; South Canar. Re. 400 Revenda Manicipally R. 70, and Mantipatam Montelpally R. 80

Physical Training School.-The Director of Public Instruction reported in November has that the Imperial grant of Re \$2000 sapetioned for the education of Europeans and Arglo Indiana in GO No 204 Edu cational, dated and March 1912 is proposed to be uti lised for the following purposes during 1918 1914 -- (a) for giving supplemental sid to European Schools to enable menagers to improve their teach ng staff, (3) for starting manual training and physical training centres for European pupils (c) for compensating Managers of European Schools for remission of school fees to deserv ing pupils in Primary classes and for payment of the cost of class books of poor pupils and (d) for meeting fully as far as possible the demands for boarding grants under articles 40 and 42 of the Code of Regulations for European Schools In regard to the proposals (al. foland (d), the Inspector of European and Training Schools and the Inspectresses of Gula Schools have been asking to obtain and submit arnifeations of deserving schools With regard to the proposal (b) the Inspector of European and Training Schools stated that improvement was much needed in the physical training now given in the majority of European Schools. It was also reported that the exercises now taught were usually old fashloped and un soluble for children and that the instructors were generally incompetent. With a view to removing this defect and to introducing modern methods of physical culture the Director proposed to start a central class for physical training in Madras under a competent instructor The Government have approved generally of this proposal the institution being placed under an instructor on Rs. 200 per measure on a temporary footing for a period of five years from the 1st March 1918. It will be interesting to know whether this school will be oren to pupils other than those belonging to the class of European and Auglo-Indians

Ramnad S P G. School.—The Government are pleased to spection a grant of the sum of Rs 5.40 towards the cost of the construction of an additional building for the S P G High School, Ramnad

High School for Guria at Visup — On the area commendation of the large-trees of Guria School Northern Circle Walkin the location of a Hyd School Northern Circle Walkin the location of a Hyd School of Guria at Visuppetim was sent circled. Only to won indected from England the School has not well been proceed. As a High School for glin in the borthern spread As a High School or glin in the borthern as a typenment it is deemed derivable to open it at Visuppetim when the the bendgariers of the Inspections, to that the action might be mader her riches prevent inta the action might be mader her riches prevent into the process of the district owly to its central position and the somewhat favourable processes. School might be opened in that the circle with the central position and the somewhat favourable processes were inferred that the exhabitation of rights rebool?

would be considered on the experiment at Vissgpatam proving a success,

St. Joseph's School, Bullary. The authenties of the St. Joseph's European Erys School, Bellary, but the St. Joseph's Erys School and School and

Training Students—The Government of Madras have anothoned the proposal of the Director of Public Instruction to extend the payment of the special allowance of Re. 1-5-0 anothoned airraidy to the students of the elementary grade under training in Government training schools, who are in receipt of a stipend of pite proposal.

Bliver Jubiles of M. J. Zhanten jackseigTayani and prese insuless of the Metha-phot bediparametric present insuless of the Metha-phot persons of
assembled in large numbers in the College premises to
celebrate the Silver Jubiles of the Principathing of Rao
Bahdor R. Rannaujechnier, M. J., B. L., M.C. The Verrable Principal was taken in procession from his base to
the rigidal for much entherisant among the audience,
M. N. Shake Rev Pastelly preaded. After a few sogs
and wrotes were received by Funchin, as Address was read
and the procession of the College. After a few speckade by some past students, Ren Bahdor R. Rennoujetaria Fajile datii, I have been and prayed
bearing the procession of the College. After a few
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A favowell entertakement,—The actionic part and preses of the Renderd Profilement and preses of the Renderd Profilement assembled on Saterday, the 18th lexiant, in the School Hall, to present a favorell address to Mr. A Thall, to present a favorell address to Mr. A Thall, to present a favorell address to Mr. A Thall, to present a favorell address to Mr. A Saterday and the Profilement of Patternals4, to the spite present the Head Render and Assistant of the Sirth From on the error of the Saterday and the Local Riph School, with the Head No. Mr. S. Steinhess to be read. Teams were composed for the occasion by the Break and the Saterday and Mr. 1980 and the Saterday and the Saterday and Mr. 1980 and the Saterday and the Sater

The B TG College and Schools, Trichlopoly, The 18th Assisterary Festing of the S. P. G. College and Schools at Trichlopoly took place recently is a maner quite behing the onless occasion. The Prince Place At Home From 4 to 6 is the alluding that when the place of the trickless of the Conference of t

The Fresidency College Malsyalam Samijam.—The Anniversary of the Presidency College Managalam Samijam, Madras, was celebrated with great relat in the Presidency College Hall, The Hamble Justice Sir G. Santavam Nair president

After the annual report of the working of the Sampine during the past year was read, the Honbis Mr. K. P. Raman Menon delivered a locture on "Quale." The Honbis Mr. Raman Nayana also spoke on the same subject. After an interesting speech by the Chairman of the improvement of Vernacular literature, the meeting terminated.

Martini High School - The Histe High School, Neural, issuited in 1908, it slong recitable west triefly regress tredit on Mr. Nr. Ramasswy Jyer, And. L.S., the Hangare and Historian School and the School and Assistants. The students of the above in the Litter Assistants. The students of the above in the Litter School and Litter School

The Realism Elevery Association—Then wis alread introduced as the fill and association of the Manilla Literary Association and association of the Manilla Literary Association and association of the Manilla Literary Association and the Manilla Literary association of the Manilla Literary and was subject to the Manilla Literary and was subject to the Manilla Literary and was subject to the Manilla Literary association of the Manilla Literary and was subject to the Manilla Literary an

The Boveton Frotestant College and Girls' High School - The Annual General Meeting of subscribers of these institutions was held in the Dorecto College Hall, Vepry. There were present Captain V, J. Staggs, I. S. N. D., (retired), Messra, J. B. Athinson,

(Recentry Secretary), J. W. Hay Ellis, James Stev. George Maddog, K. C. Thomas R. T. Tacher W. B. Stages, F. L. Taylor, G. W. Vieras F. Leun A. J. Betwen and J. R. O.Velli and Assistant Geogram J. M. Betwen and J. R. O.Velli and Assistant Georgeon J. M. Maddor, seconded by Captum V. J. Stages Mr. J. W. Hay Ellis as toteld to the chair The beauers of the meeting opened with the consideration of the Reprot on the working of the Institutions for the Suproys on the working of the Institutions for the

The next subject was the election of three members of Committee in the place of Messrs James Short E. L. Taylor and Captain V J. Slaggs, who reture in rotation but where eligible for re-election. It was proposed by Mf. F. Levi reconcided by Mf. E. C. Thomas and corrude "That the three members of Committee who reture in rotation be re-elected."

The Tamil Acadamy, Madras—At the meeting of the Academy beld in its premises, Sataratanum Krishnaswami Paralar delivered a lecture on Sags pularar Mr C. R. Namasıvaya Mudahar presided over the meeting.

The Madras Teachers' Guild.—A necture of the History and Goegraph Section was held as the Hisch High School, Triplicane with Mr K A Viersepheratoners in the class, when a living descaption on the school was a superior of the control of the school was control of the control of the school was control of the control of the school was control of the control of the to the detrinces of the control to request the subject to the detrinces of the control to request the subject to make the control of the control of the subject to fix and publish the propertion of make slotted in the of the subject and set to frequest the publication of the report of the Chef Examines of severy year for the deformation and products meeting terminated.

Corporation Model Hementary Schools - Ten at the Elementary Schools of the Corporation of Barias was opered on the 4th Instant at Vallable Arghatarm, Turnstensampset. The raites of seas a most nominal 1 anns for the Infant, 2ss for the 1st and 2sd Sandond, 3ss for the 8th Schools, 3sd of the 1st and 2sd Sandond, 3s for the 3th Schools, Sandond, Sandond

The Council of Native Education, Madras -The Council of Native Education, Madras, formulated a scheme for the spread of elementary education in this Predictory and substituted to the Government certain proposals for the intrinsurce of the schema toggle betwith replies received by the Connection of Auditer Education from Darkfel Table Boards and moderal Medicipathies. The Government, in reply state while appreciating the contents laken by the Connection the matter they consider time, basing regard to the matter they consider time, basing regard to the majorities of the Education of the Connection of the C

The Assistant Masters' Association, Triching. poly -An ordinary meeting of the Association was beid recently to the premises of Aryan Secondary School with Mr P A Ganesa Iyer, BA, L. T. of the St. Joseph's College, in the chair About thirty members attended The proceedings of the meeting commenced with a resolution to send a congratulatory letter to the Honble Mr V S a congratulatory letter to the Honble Mr V Strintwas Sastriar BA, LT, on his clevation to the Madras Legulative Council and a letter of thankfolness to H E Lord Pentland for his nomination. This was followed by a very lively discussion lasting for more than two hours on the desirability of limiting the working hours of teschers in Lower Secondary forms and Primary classes, in which many members took an active part. It was pointed out in the course of the dis cussion that teachers in the lower classes have a very real grievance and work for long hours, the with ver od being a slow sweede. They are not now in the same footing as they were ten years ago, their work and responsibilities having increased consider ably owing to the introduction of the School Final scheme which, with its marking system and preparation of notes of lessons, has been taxing their time energy and patience Bes des, there is considerable overstrain in the lower classes detrimental to the interests of boys and teachers at ka. School work for lower class children should not be the same as that for the higher Their curriculum should be simplified , nor does elementary science or geography require any claborate syllabus. Simplicity and thoroughness must be the aim school fees have been enormously raised, but this has not resulted in a proportionate improvement to the salary or lessure of teachers who are at present all but neglected, though they form the key stone of the school organisation Public opinion must be created against this grave injustice and the Government should be requested to liberally help the managers This long and interesting discussion was brought to a close by the unanimous adoption of the following resolution -The Assistant Masters' Association, Trichinopoly, is bumbly of opinion that pupils and teachers in Primary classes and Lower becondary forms are over-worked and begarespectfully to aubrut to Headmasters. Managere and

Educational authorities that the working hours of Primary classes and Lower Secondary forms be reduced to 4 and 4½ respectively and that the teachers he not given more than 4 hours daily work.

BOMBAY.

Poons Agricultural College.-His Excellency the Governor in Council has decided that there should be a standing advisory committee in connection with the College of Engineering, Poons. The function of the committee will be to advise Government on questions of policy, organization, staff, buildings, equipment, forma-tion or reconstitution of classes, corriculum, rules of admission and any other subject connected with the sometion and any other subject connected with the College regarding which Government may require its ppinion. As the Committee will be closely associated with the College and will visit it periodically, it will be in a position to take the initiative in suggesting improvements and reforms in respect of the above matters. The committee will consist of nine members as follows:-Official members :- The Chief Engineer and Secretary to Government, Public Works Department; the Director of Public Instruction; the Secretary to Government, Educa-tional Department; the Principal, College of Engineer-ing, Poona; Lieutenant-Colonel W V. Scadamore, R. E., Superintending Engineer, S. D. Non-official members :-The Locomotive Superintendent, G. 1. P. Ballway; the Engineer in charge of the Tata Hydro-Electric Works. Lopsyla; the Principal of the Victoria Jubilee Technical Institute, Bombay; and the engineer of a selected Bombay Cotton Mill.

Bombay Educationists' Conference.—A three characteristic of Conference of Directionite was high in Bombay and Conference of Directionite was high in Bombay and Conference of Directionity of Conference of Conferen

The Alexandra Girls' Institution.—The following letter has been received by Mr. C. M. Garself from Six W. Wedderburn who at Mr. Carself; request had a copy of the Jobiles prespectors of the institution in question placed before Ir. M. Geren Alexandra :—

Marlborough House, January 4th, 1913

DEAR SIR WILLIAM WEDDERREYS

Larva submitted to Queen Alexandra 3 for letter of the Caffe intent of Horsendon content of the Republic Alexandra Native Graft English Capitaline Canada and Assistant Capitaline Capitali

to be good enough to convey to Mr. O. M. Cersetji and the Directors her sympathatic approval of the price which is in contemplation to develop female education in Icdis and to express toolthem and to those who as so generously supporting the movement Her Misjesty's singers brose for the Inters success of the school,

I remain, etc

HENEY STREATFIELD, Colonel,
Private Secretary.

Bombay Matriculates and Special Tests.— Persons who have passed the Matriculation examision of the Bombay University and sa for the Public Service on or befors 31st July, 1913 will be eligible appear for any Special Tests to which Bombay Mariculates are now permitted to appear,

Scholarship donation—III Illghoses the Thabes Shebh, the raise of the Lindbl Siste, with a rise to connectorate the memorable with of III It the Aga Rase to the Connectorate the memorable with of III It the Aga Rase of the Connectorate the memorable with the III Indian and It Indian self-state of the Indian Connectorate the Indian State of the Indian Connectorate the Indian Ind

DALCUTTA.

Women's education in Bengal—The Celevite Gatette contains the following Resolution on the subject of a "Female Education Committee for the Bengal Presidency":

The composition of the Committee will be as follows: Mr. R. Nathan, O.S., C.LE., President; the Director of Public Jastruction, Bengel; the Hon'ble Mr. J. G. Carming, C.L., Commissioner, Presidency Distalon; the Horbis Nawab Sajrid Nawabali Chachti, Khan Baladr, the Mon Be Dr. Davapaned Satabalicary, 21 Acr, the Mon Be Dr. Davapaned Satabalicary, 21 Acr, the Mon Be Dr. Davapaned Satabalicary, 21 Acr, 22 Acr

Sanskrit learning in Bengal -The Unlcutta Gasette contains the following Resolution dated February 10th -

Several important questions relating to measures for the encouragement of Sanskrit learning bayo come under the consideration of the Government of Bangal The Conference of Orientalists, held at Simils in July 1911 made proposals for the prome tion of ancient and indigenous systems of learning, to which the Governor in Council desires to give practical effect. The time has come for reviewing toe constitution and functions of the Sanskrit Examination Board, which was established in 1908 and is still on a temporary footing A scheme has been submitted to the Government for expanding the Dacca Saraswat Sama) into a more widely organized body which should aid and advise the Government in all matters connected with indige none Sanakrit atudies in the eastern districts Daces University Committee have raised the question of the creation of a department of Brab manic studies in the Sanskrit College on lines similar to those proposed for the department of Islamic studies in the new University Lastly, the recent territorial redistribution makes it necessary to compare, and, where desirable to coordinate rules and practice in the two portions of the province.

The Governor in Council has decided to convene a conference to advise on the difficult and important problems which have thus arisen and to deal more especially with the following questions:—

 whether separate organizations should be readed for the encouragement and control of Sanskits learning at Calcutta and Dacca, or whether a single organization with its centre in Calcutta should serve the whole province;

(2) what should be the constitution and functions of this organization or of these organi sations:

(3) whether any substantial reforms are required in existing systems for the grant of titles, stopends and rewards;

(4) what should be the policy of the Government in regard to the encouragement of tols,

(5) whether a department of Brahmanic studies combined with instruction in English should be established in connection with the Sanskrit College

The constitution of the Conference will be as follows -

The Hon Justice Sir Arhutosh Makhapi, Kr. Cali, KA, D. Sc., D., Vice Chancellor, Galecuts University—Fresident, The Hon Mr. G. W. Archier Cir., R., Lincetor of Public Instruction, materially and the Company of the Co

The Pandits from Bibar and Orissa and from Assam have been invited with the portnession of the Loos! Governments concerned, but they are not official delegates, and the Conference is convened primarily to deal with the situation in the Bengal Presidency.

Hypn Gullega—His Excellency Lord Garmchel compensed by the Bon Mr. Gonklay and the floor Mr. Knehler wasted Bypn Gollege His Excellency was received at the gate by the Bon Baba Sarendra Nath Baneryet the Hon Baba Sarendra Nath Baneryet the Hon Bah Sarendra Nath Baneryet the Hon Ran Radha Garma Pal Bakader, Mr. J. Obowdhurs, Prencipal Teveris and the staff. As soon as His Excellency algebra of the staff as soon as His Excellency His Large Honey His Large Honey His Large Honey His Large Honey Ho

Distribution of Prizes, Brahmo Girls' School—
Sir Lawrence Jenkins Chief Justice of Beugal presided at the prize giving coremony of the Brahmo
Girls' School, held recently in the spacious ball
of the Institution in Upper Gircular Boad The
school hall which was tastefully decorated with
foliage and flowers, was packed to its utmost

especity with parents, goardians and friends of the pupils, including European and Indons laders and gottlemen Lidy Justices who was presented with a headoom florab lader and gottlemen Lidy Justices who was presented with a headoom florab quest consistency of the Light Light

S C. Institution - The fith somed commemoration and distribution of prises of the Shyama Chern Institution took place on Saturday the Montanta at 40 Fz at the school premiser, No. 174. Manichtoila Street ander the presidency of perceible genulmen and the gardman of the boys of this nontitution attended the meeting. The building was tastfally decorated The meeting commenced with welcome songs. The Streetsey read the annual report of the institution, the Franchest then distributed the silvent meeting of the annual report of the institution, the Franchest then distributed the silvent meeting of the annual report of the silvent of the street of the management of the school of the efficiency of the management of the school on the efficiency of the management of the school on the distribution of the school of the school on the school of the school on the distribution of the school on the distribution of the school on the distribution of the school on the school of the school on the school on the school on the school on the school of the

Bengal Atlatic Society.—At the annual meeting of the ariset Society of Hengal it was reported that there had been an increase in the membership and there had been an increase in the membership and the society of the

Board of Sankrit Convocation.—The first Convocation of the Board of Seedent Examinations to confer titles on Sankrit students was held at Calcutta on January 24. The degrees were conferred by His Excellency Lord Carmicosal who was in the chair. Six Abbatch Mockriye, the Freident of the Board, delirered a length address.

Director of Public Instruction.—There has been a strong agustion to Beogil against the remoured intention of the Guternment to appoint some one outside the loding Effectional Service to the post of the Director of Public Instruction.

ALLAHABAD.

Prire distribution: The Municipal Board Shoulds—Recently the ercord around and principal to the children of Municipal Bard Schools cames C Cattleren from agreem Bays and Lar Guis' schools around the Karra Bagb.

Park There was drill competition and many schools entered for the same. Under the instruction of their respective drill mesters, they performed keerst and damb-bell drills, and Mr. Milated, Headmaster of the Bage High School, acted as ampire. After the competition which lasted for sa hour and a quarter commencing at 12 noon, the Municipal Commissioners and the school children assembled under the shamiana, which was specially erected, and Mr. C A Mumford took the chair. Mr. B. P. Mohun, Chairman, Educational Sub-Committee, presented the school report which showed that between 1912 1913, there were 1,360 children under instruction, manned by 58 teachers, and one Inspector of Schools. Rs. 18,030 was spent for the year 1911-12 and 21,000 was budgetted for the year 1912-13. The report regretted that the schools had all been in rented buildings, and they found great difficulty in gesting good sites at various centres for building schools of their own. In conclusion Mr. Mobun thanked the Municipal Chairman for his interest in education and the teachers and the Inspector for their whole-bearted work during the year.

Chandausi Cabool — The annual pris-daistibation of the Shyam Sunder Menorial High School Chandausi, came off recently. Mr. Lopia presided and Mrs. Lopion gave away the prise which were numerous and handown large and bearing a long with green foliage. The proceeding open of the prise of the

The Anglo-Bergall School—The second anniversary and present intuition of the A. Il. School Bearsen, was exhibited receipt andre a bit sheet are substituted in the second anniversary and the second and the second black. Bearse, presided and there was a little black and the second black. Bearse, presided and there was a little black bearse, presided and there was a little black black. Bearse, presided and there was a little black black

being given daily

Urdu the pr zes were given away and the proceed ings came to a close

Government Examinations, Allahabad —The Preluminary Scientific Examination for the degree of Eschelor of Medicine and Eschelor of Surgery will be held at Allahabad on Monday, the Str September, 1913 and following days commen cung at 10 A. v. each day one paper as far as possible

The Intermediate examination at the Allababed centre and the B A and M A Final examinations of 1913 will be held at the University Scane Hail Allababed The B Sc M So. Previous and Final and the M A Previous Examinations will as usual be right and the M A Previous Examinations will as usual be right and the M A Previous Examinations will as usual to the Allababed centre will also be held at the University Scane Hail Allababed.

PUNJAB

A Residential College —The Residential College which is to be built at Delhi by St Stephen's College is to cost about £33 000

Dr Boses Lectures — Dr J C Bose the emment Science Professor, Presidency College Calcuta will deliver a course of three fectures on scientific subjects in the University Hall Labore The lectures will be attended by experiments and are in tended for the benefit of graduates engaged in research work or special studies

Girls School for Delhi.—Her Richess the Eggm of Blogal writes as Gilors.—My proposal rs the establishment of a Girls School in Dalbi in commemoration of the auspicious visit of their Imperial Majesties, was published in the Times of Jarida and everal other papers sometime in April last year. I now take the opportunity publicly to thouse the Beginsm Maharamis Ramis and other minentiales for their kind and the book of the Comment of the Co

Rs 50 000 H H the Nizam H H the Maharani of Gwaltor 50 000 H H the Dowager Maharans of 1 50 000 Gwalior 3 000 H H the Begum of Januera 2 000 H H, the Rant of Rajgarh 3 000 H. the Ram of Narsingarh 5 000 H H the Rant of Dhar 7 000 Quiser Dolahin Sahiba of Bhopsi Shahryar Dulabin Sahiba of Bhopal 5 000 5000 Shah Bano Begum Sabiba of Bhopal Sir Valentine Chirol, of the Times London 1,25 000 Myself

MacDonnell High School, Jhansi—The angual prand stribution to pupils of the MacDonnell II gh School came off recently The school ball was tastefully decorated for the occasion and there was a large gathering of Puropean and lobin genilo men consisting of officials and the gentry Mr S berrad, the Collector was in the observed.

After the Report was read there was recitation by the boys The prizes were then distributed by Mrs Silberrad

MYSORE Mr Naniundayvas A V School -Tie neige

distribution ceremony of this school was performed to Unddanna Hall by the Luvarate who in spite of pressing engagements was pleased to be present, There was a distinguished gathering on the dais From the report read it is evident that the school has been turning out uniformly good work. The school was started ten years ago to commemorate the memorable event of the Installation of H H the Maharaja The beginning was not encouraging but the founder Mr Nanjundayya persevered in his whole heartedly and steadfastly strength rose gradually and in 10 years it came up to 800 That is a record of good progress It is no small credit to Mr Nanjundayya the Manag ng Proprietor who had to find the means to keep up the growing institution. The school is a living example of what a publ c spirited and solf denying person of the type of the founder can accomplish The school has a Covernment monthly grant of Rs 75 and a Munic pal grant of Rs 25 a month After making the awards the luvaraja gave a speech in the course of which he said: We see that this educational institut on was opened by Mr Nan undayes at the matance of the public of the city to meet a real want. T me has shown thanks to the initiative and the philanthropy of Mr Nan joudsysa that the school has been a well thought out and deserving institution in that it stands today as the largest school of its kind, in the province with nearly 800 boys on the roll. In the days when education is to the front and the Gov erument are making liberal efforts to bring knowledge to every home private endeavours of the description cannot too highly be appreciated. The gratitude of the public is due I think to Mr S R Nanjundayes for his public spiritedness in found ing this school and my brothers and my own appre ciation for assoc ating it, with His Highness' Installation The achool examination results seem to be gratifying and the general management of the institution satisfactory The most pressing want of the echool appears to be a suitable habitation for its purposes and it is encouraging to hear that the Municipality have promised a helping hand in this direction. The institution is an enterprise that is worthy of recognition and I wah it all success conclusion it has been a great joy to me to have presided at the prize-d stribution to the boys of this institution I give them my good wishes and I thank the Managing Proprietor, the teaching staff and you all for your hearty reception

Students' Literary Union -Mr. J S. Chakravarti, MA. FRAS, the Compiroller and Financial Secretary to the Government of Mysore, presided at a lecture given by Professor F W. Quinton-Anderson, B . , of the Central College, in the ball of the London Mission High School. The discourse. which was on "English Literature," took place under the suspices of the Students Literary and Athlete Union of which an abstract appears in another page

The Indian Institute of Science -The following extracts from a recent report on the 1911-12 Session of the Indian Institute of Science will be read with interest :-

There have been no changes in the Court of Visitors. But as under section 13 of the Regulations, the persons first appointed by the Vice-Patrons vacate their office on the 31st March, 1912, the following fresh appointments for a further period of five years have been made by the Vice-

By His Excellency the Governor of Madray.-The Superintendent of Industrial Education in the

Madras Presidency.

By His Excellency the Governor of Bombay-The Ron'ble Justice Sir Dinshah Dhanjibhai Devar. Kt. Barrister-at-Law.

By His Honour the Lieut, Governor of Bengal -The Hon'ble Maharajah Manundra Chandra Nandi of Cossimbazar.

By His Honour the Lieut. Governor of the United Province.-'The Hon'ble Rai Sondar Lal Bahader.

By Ha Honour the Lieut Governor of the Punjeb .- The official member representing the Gov-

ernment of the Punjab on the Imperial Legislative By the Chief Commissioner, Central Provinces,-

The Hon'ble Rao Bahadur Ranganath Narasingh Mudholkar-By the Agent to the Governor-General and Chief

Commissioner, North-West Frontier Provinces --Dr. M. A. Stein, C.LE By the Chief Commissioner of Coorg .- W. M.

Ball, Esq.

By the Chief Commissioner of Ajmer-Merwara —
W. Waddington, Esq., c.t.z.
By the Agent to the Governor-General, Baluchia-

tan.—Khan Bahadur Bayjorji Dorabji Patel, C.I.z. Prof. J. J. Sudborough. D. Sc. Pn. D. vic., bas become a member of the Court of Visitors in second. auce with Section 9 eleventhly of the Regulations. The Senate have nominated Prof. J. J. Sudborough

to be a member of the Council. The Cours of Visitors elected Mr. A. Chatterion and have reelected the Hon'ble Dr. A. G. Bourne, who had cessed to be a member of the Council in secondance with Section 16 of the Regulations.

As reported in the introduction to the Second Annual report of the Director to the Council of the Institute, the First Session opened on the 24th July, 1911, and before the end of that month 17 students were at work in the various laboratories | 2 students

joined in August, and 2 in September, and again 3 in Jaurary, 1912. Of the total number of students admitted 19 were University graduates and they may be classified as follows:-

		BA. or B. Sc.		MA. or MSc.
Madras University		2	•••	1
Bomb**		4	***	7
Jalcutta	#	1	***	2
Allahabad		2	***	***
		0		10

The non-graduates had received their training id the Victoria Jubilee Technical Institute at Bombay. Under Section VIII (1) (c) of the Bye-laws, all students were admitted on probation, and two were rejected as it was found that they did not possess sufficient knowledge to enable them to profit by remaining at the Institute.

The ultimate distribution of the students was as follows .

Applied Chemistry	Department	***	1
Electro-technics		***	4
General Chemistry	*	***	***
Organic Chemistry	*	***	

TRAVANCORE.

The Travancore Teachers' Union .- An influential Committee has been formed with Mr. G. Parker reincipal Sectis Christian College, Nageroll, as Chairman and Dr. G. F. Chark, Principal of the Cocal Teacher's College as Secretary to organies an association to be called "The Travancer Teacher" Union "The other members of the Committee are Union "The other members of the Committee are Messra J. Stephenon, Professor of Physics in the Trundram College, K. V. Bangassam Alyanghi Fredessor of Hattory M. Amar Narma Yamphi Cheleston of Hattory M. Amar Narma Yamphi K. Vonkatsswan Iger, Vice Principal, Teachers College, B. Enganatha Iger, Hadmasser of the Trizadram High School, R. P. Kulandsswani, Hadmasser of the SI Joseph High School Trundram and K. O. Espencit be S. C. Seminary Terretullah. The saim of the Association in further Varstellah. The saim of the Association in further than the Committee of the St. O. Seminary Terretullah. The saim of the Association in further than the Committee of the St. C. Seminary Terretullah. The saim of the Association in further than the Committee of the St. C. Seminary Terretullah. The saim of the Association in further than the Committee of the St. C. Seminary Terretullah. The saim of the Association in further than the Committee of the St. C. Seminary Terretullah. The saim of the Association in further than the Committee of the St. C. Seminary Terretullah. The saim of the Association in further than the St. C. Seminary Terretullah. The saim of the Association in further than the St. C. Seminary Terretullah. The saim of the Association in further than the St. C. Seminary Terretullah. The same than the St. C. Seminary Terretullah The St. Seminary Terretullah The St. Seminary Terretullah The St. Seminary Terretullah The S ing Secondary School education in Travancore, by promoting each teacher's knowledge of his subject and the methods of teaching them. It is also understood that the Association desires to arrange for the publication of a magazine concerning the progress of education and modern methods in teaching.

The New Professor of English -Mr. Duncan John Sloss, H A , is the newly appointed Professor of English in H. H. the Maharsjah's College, Trivandrum, Mr. Sloss has been prior to his appoint-ment, bolding the post of Deputy to Professor Yaughan in the University of Liverpool. The Durbar are to be congratulated on the acquisition

of a man of Mr Sloss's abilities, for the Professorship of English, in the College

A Pablic lecture—Under the anspices of the Pablic Lecture Committee Mr L C Hodgson, M a Principal of H. H the Maharajah's College for Boys, delivered a learned lecture on the "Reform in English Spelling" in the Victoria Jolihee Town Hall. Dewan Bahadur P. Rajagopala Chariar presided

Foreign Motes. GREAT BRITAIN

Indian Students' Law Library—Mr Millet opened the indian Students' Law Library comprise 720 or Crouwell Road center. The Library comprise 720 volumes of Englash law reports presented by Sir Thomas Raleigh. 100 cent. The Library comprise 720 or Thomas Raleigh. 100 cent. The Library comprise 720 cent. The Comprise of C

Library was confined to law, gifts relating to other branches of study would be gladly welcomed

Sir Thomas Raleigh emphasised that the know ledge of the practising barrister must be superior to that needed for examinations

Indian Students at Zünburgh — A recent meeting of Indian students at Edmburgh passed a resolution strongly protesting agunst the reported decision of the India Office to place their grant and provided the property of the provided property of the provided property of the provided property register to take care of the state of the University. The resolution also expensive the University The resolution also expensive the University. The resolution also expensive the University of the Property of the University of the Property of the University of th

It was resolved to notify Lord Crawe of the Resolution.

Indian Students in England — At the Fourteenth Annual Ceylon Dinner in London held in the Holborn Restaurant last month, there was a distanguable glavering present. Mr G S Schneider of Ceylon, presided and in the course of his remarks dwelton the dusabilities of Indians in connection with their admission into the Universities and Colleces

The English Association —The Annual General Meeting of the English Association was held at University College Gower-Street, Mr. John Bailey presiding Mr. Bailour was elected President and Lady Ritchia (the return) president) and Professor G. L. Kittredge were added to the list of Vice Presidents.

The report of the Executive Committee, which was adopted stated that the Association had main adopted stated that the Association had main and the state of the s

The presidential address was read by Mr L G von Glehn

The Association held a conference at the same place when the Rev Dr Nairn (Headmaster of Mirchant Taylors' School) presided and papers were given by Mr Percy Simpson on "The Value of the Plain Text in the Interature Lesson" and by Mr A J Spilsbury on 'Pross Teaching in Schools'"

Historical Association—The Saventh Annual Meeting of the Historical Association was beld tondon University Professor Spenser Wilkinson gave an address on "Some Lessons of the War in the Balkans."

SCHOOL AND COLLEGE SPORTING NEWS

The Presidency College Football Tournament,

LAW COLLEGE US PRESIDENCY COLLEGE.

The match between the above teams was played

on the Presidency College Cricket Grounds. The Lawyers of whose real form little or nothing was known, on account of their not having competed for any of the recent tournaments, played under the suspices of the M C Athletic Association, and not un a splended fight, as will be seen from the fact of their getting beaten by only the odd goal in three. Composed as the team was of men who had most of them made their mark in the several Colleges from which they respectively graduated, their creditable performance was after all no matter for wonder, but all the same, that they should have played really so well, without any the least practice was certainly remarkable. The Presidency had a distinct advantage over their opponents in having had three hardworking balves who all understood their work for while the Law Halves were merely content with defending their citadel, leaving their forwards to look after themselves as it were, the Presidency Halves not only did the parely defensive work to perfection, but made it a point to set their forwards constantly going. It was this thing that not only made the Presidency attack look resily more dangerons than that of their opponents, but practically won them the came as well.

THE CHRISTIAN COLLEGE OF THE MEDICAL COLLEGE.

The above teams met on the Presidency College Cricket Grounds the Medicors, in spate of the sextled disadvantages, put up a plocky fight and were beaten by only one goal. For this they have mainly to thank their two backs, Vithia Mecon and continued the sextled of the sextled

THE ROTATURAM MEDICAL SCHOOL OR THE MADRAGA I-AZAM.

The match between the above teams was played first on the Presidency College Cricket Grounds and caded in a draw. It was replayed again on the Medical College ground with the result that the R.M.I.S. were left winners.

PRESIDENCY COLLEGE es. WESLEY COLLEGE.

The semi-final of the above Tournament played on the Presidency College Cricket Grounds between the Presidency and Wesleyan Colleges resulted in a victory for the former by three goals to one. The

game took a fast torn from the first. Hoon after commencement the Wesleyang obtained a lead. The Presidency forwards then attacked hotly and besieged the visitors' goal and Srinivasa Rao the inner left who twice found himself in close vicinity of the goal delayed to shoot and missed the chance of scoring. After about quarter of an bour's game the Presidency equalized Siva Pressed the left half-back dropping the ball from a long range which the keeper defended after it bad crossed the goal line. The Presidency renewed the attack and Srinivara Rao receiving a well-placed center from the right sent the bill over the goal. The Wesleyans for s time carried the game to the opposite end and the Presidency keeper was once or twice called upon to defend the goal. Close on half-time the game was confined to the sisitors' and and Kumaraswami the inner right of the home team scored out of a scrimmage. When half-time arrived the Presidency were leading by a goal.

After crossing over the Wesleyaus under a vigorous attack and penetrated to close quarter. Anantasarayanan the outer left getting, a well-timed pass from the inner seat the hall out, and the state of the left o

CHRISTIAN COLLEGE CO. ROYAPURAM MEDICAL ROHOOL.

The match between the above teams was played for three days in the Presidency College Cricket Grounds. The Christians secured an easy victory by three reals to wil.

Pennyeuick Tournament.

The above Tournsment for which six teams had competed was played by the Wesleyen and Medical Colleges The Medicoes who did not appear in their full strength as three of their best men were anable to take part, suffered a rather crushing defeat at the hands of the Wesleyans who were on their best form, The Wesleyans winning the toss elected to bat and compiled a total of 240 runs, the noteworthy feature of their innings being Baliah's maiden century scored in grand style. Ekambaram and Seshayya made neetal contributions of 26 and 24 runs respectively. The Medicoes made 131 rans, Strickland who was the chief scorer displaying fine batting skill for an unfinished 52. With a lead of 110 runs on their first innings the Wesleyans entered co their second venture and made 183 runs of which total Baliah and Madhava Pracad were responsible for 31 and 23 runs respectively. The Medicoes who had to make 244 runs to win collapsed miserably in their second innings being only able to put up 60 runs Loganstian 20, Suckland 15 and Anantara man 11, being the obtef run getters. The match thus terminated after three days play in a decisive vic tory for Wesley College by 183 runs.

PRESIDENTE COLLEGE DE CHEISTIAN COUTEOR

The final match of the above Tournament was played out between the Presidency and Christian Colleges on the Presidency College Oricket Grounds There was a large crowd assembled to witness the match which was keenly contested and resulted eventually in a hard won victory for the Visitors by 2 goals to one.

The Presidency took up the aggressive from the Start and by their combined efforts their forwards found their way to close quarters and Scinivasa Rao the centre forward shot wide of the posts. The Presidency renewed the attack and Lumarasamı and Gonalewams by dint of clever passing penetrated to close proximity of the Christian goal and the former scored the first goal of the evening couraged by their success early in the game the Homesters kent up the pressure on the opposing defence and obtained a couple of corners which were not, however, turned to good account. The Christians soon began to play up and Ambrose, the centre forward made a dashing run and carried the ball to Presidency territory. The Christians were awarded a penalty kick as Ramassmy, one of the Presidency balf backs, fouled maide the penalty area and Desiksthat the Corestan back scored easily and thus equal sed matters. Play grew more securing thereatter and both ends were frequently visited. Towards the close of the first half Gopalawami the Presidency outer right, sent in some good centres which were not however utilised. At ball time the score was one all

After crossing over the Christian forwards made a vigorous attack and Ambrose the centre forward, and the inner left gave the flome defence frequent trouble. When the game had been in progress for about ten mingtes Seiramulu the Christian outer right, sent a finely placed centre and a meles ensued near the month of goal and Ambrose scored. The Christians soon followed with another but it was disallowed as one of their men was declared to be "off side" The Presidency made strenuous endeavours to equalize and Srinivasa Ruo who made a smart run shot the hell out when nearing the Christian goal Soonsfter Gopelaswami their outer right sent a nicely placed centre but Narasimma Rao, who found himself before an open goal deflected the ball over the goal Towards close the Presidency obtained some corners none of which was productive and when time was called the Christians came out winners by 2 goals to one

Wesleyan Mission High School es S P G

The second match in the first cound of this tourna ment was that between the abore leams played on the Fickwick ground. The Wesleyson, though NIX

they failed to make much in either of their manage, hwang totalled up altogether in their two finning only 118 rans mensinged to beat the S P G who find unfortunately a poor team, by the bandsome mergan of S7 rans Taking first koock the West-Schan pain p7 larune Bingers Babu and Raparthy about the optimized of a find the state of the same part of the same part

in an easy win for the Wesleyans by 57 runs Senior Single Tennis Townsment

The final of the above competition to the Haveleck Cap came off in the Victoria Hostel Tenns Gourt between the Christian and Presidency Colleges which were represented respectively by Markander old and Suryanarayanan Markardeyulu won the old bettin three (75 3 66 63)

Junior Double Tennis Tournament

At there were only two entries the Wesley and Parkanyapper for the Jones Double Trans Tournment for the Sir Research Con, the Tournment for the Sir Research Con, the Indiana Control of the Control of t

We congragulate the Pachairarpa pa's on wreating the Cup from the Wral-y who it will be remembered baye been holding it for the last four years

ed baye been holding is for the last four years

Annual Sports of the Madras Medical College

The Annual Athletic Sports of the Madras Medical College were held on the College grounds. There was a large gathering of the students and others interested in operas and these were to as far an attent, as possible accommodated under tents speci silly served for the occasion.

The apoets were in charge the Committee consisting of Major I F Flows and Cast Loring 1948 by and Major A Miles and Major T H Symons fearers 1 The sevents were run purchasty to time and the whole stow was a success from begrating to end

There were no less than 15 fierns on the programme recluding a Coronial on Ricce and a race for the College servants. The litems were all of the usual kird and only one erent the one mis flat race was oben to all the colleges in Madras.

After all the everts were over Major Donovan distributed the prizes to the successini winners. During the ever ng the Bardel II E. the Governor was in attendance and played selections of music

Muse College, Allahabad

118

The Annual Athletic Sports of the Muir Central College took place on the 7th and 8th instants There was very good competition and there were some very creditable feats. The long high and pole numps were about the best of the lot Messra Chaterit. Ksipa Shankar, Biawas and Mukerji, did very well indeed and proved to the spectators that Indian students are both mentally and physically strong The sports were very ably conducted by Mesers Har Present Misra. Stewart and Llord. Everything was well organised

Canning College Lucknow

A new game of cycle polo has been introduced at Canning College, Lucknow. It is played on bieveles with polo sticks cut short, and a hockey ball on foot ball ground with larger dimensions. Its rules have not yet been framed, bit a committee is going to be held to draw up the rules suiting the present need. Alterations and additions would be made according to suggestions from supporters. It is a very interesting game and a good exercise for ovelists

THE MADRAS CHRISTIAN COLLEGE.

The Annual Athletic Sports of the Madras Christian College were held on the S I A A. grounds There was a large attendance including the Rev Dr William Skinner, MA, Principal of the College The programme was a long one. consisting of no less than 16 stems the most interest ing being the hurdle race, throwing the cricket ball, the tug-of war, the one mile race the obstacle race, and the high jump The events were well contested and evoked loud and prolonged chering Professor F W Henderson and Mr D K Wilson acted as Judgee. The Annual Athletic Sports connected with the College School took place on the S I. A A grounds in the presence of a large gathering of students and friends. Mr. R Sheriffs and Mr J Jaganathan, B A, LT, were the Judges There were 16 events, and the students entered into the competitions with a spirit of keenness and enthusiasm The distribution of prizes to the wingers took place in the College

THE TIMESVELLY INTER COLLEGIATE

ATRLETIC ASSOCIATION.

The Annual Sports 10 connection with the above Associa ion took place on Saturday, the 15th instant on the Police Parade Ground, Palameottab Among those present were the Bight Rev A. A. Williams Bishop of Tipnevelly and Madora, Messra, WHIMENS DISDOP OF TIONSWELL BURN AND ASSESSED FOR THE OF THE PARK, I CS, DN. Straithe, I OS, Notbell H. Lawson, Mullelly, Mrs. Leam, Mrs. Cameron, Mrs. Straithe, DN. Straithe, A. C. Cameron, Mrs. Straithe, Mrs. Dawaon, Mrs. Addl., Villameron, Vil Mrs Ponnusami, Mrs Kiehnish Pillai, Mrs Vaikuntam Pillas, Mrs David, Misses Askwith, Howard, Pawson, Max Walford

After the various stems of the programme had been gone through, the prizes, consisting of many valuable trophies, medals and cups were distributed to the several prize winners by Mrs. M Loam Two handsome cups were then presented by Messre. H R Pate, I OS and T O Hodges x 1 to the best Senior and Junior Athletes In bringing this interesting function to a close, the Right Rev. Bishop Williams made a short speech in the course of which be remarked that the thanks of the Association were due to Mrs Loam for kindly giving away the prizes to the Judges and Umpires and to the Secretaries Messre D E Cameron and Does Kishnish who bore the brunt of the work and to whom in a great measure the success of the function was due that thanks were also due to Mr T S Varkuntam Pillar, the Tressurer who did great service in collecting the funds and those gentlemen who helped the Association with liberal gifts One noteworthy feature of this year's sports was the the mofusual schools were also able to take part owing to the fact that a special trophy was instituted separately to be competed for by the mofuseit schools slone He congratulated the prize winners and exhorted them to make strennous efforts in fatore slee and wished better luck pert time to the mesucressful among the competitors He called approval attention to the fact that the Trophies were not taken due care of and hoped there would be no neglect in keeping them clean and tidy in future

Junior Grickel Tournament

PACHAITAPPA'S COLLEGE DE WE LEYAR MISSION HIGH SCHOOL

The final of the above toprosment played between Pacharyappa's College and Wesleyan Mission High School on the Pickwick Cricket Grounds ended in win for the former

pursue his enquiries further, call further attention to the subject and compel a full disclosure of what has so far been done and what is going to be done. The memorable words of His Maiesty are ringing in everybody's ears -- " It is my wish that there may be spread over the land a net-work of schools and colleges It is my wish too that the homes of my Indian subjects may be brightened and their labour sweetened by the spread of knlowledge with all that follows in its train, a higher level of thought, of comfort and of health The cause of education in India will ever be very close to my heart" Over twelve months have passed since these words were uttered His Maresty's Coronation boon has not so far borne any fruit Possibly we may be characterised as impatient But as regards education, there has been too much waiting, and any further delay would only deaden the hopes and aspirations of those who have been tighting for the cause. The only achievement since His Matesty's gracious announcement has been the knocking down of the Hon'ble Mr. Gokbale's Primary Lducation Bill.

The Report of the Dacca University Committee is a ponderous docu-

The Dacca University Scheme consisting of about zeroity Scheme ment consisting of about zeroity Scheme matter from the proper scheme that 35 plans. The Committee seem to have gone note the matter throughly and with a rast, and have devised so well thought-out and complete as scheme that, if a University on the lines are them becomes an accomplished fact, it will serve as a model for all future and present Universities in India. They have dealt with the question from every point of view and nothing seems to have escaped their statetion. It is a difficult to escaped their statetion. It is a difficult to

choose only the saltent points of a scheme in which overy thing seems to be so novel and so much of an improvement over the system now in existence in India. One can therefore, bardly do anything like justice to the laboraof the Committee unless one goes through the Report chapter by chaptor, and notes the special features in their recommendations.

Chap I gives a short history of the 'Davelopment of the University systems now existing in Iodin' and points out their decise and says truly that the Government and the people slike have come to realise that a University, to meet the requirement of the modern times, ought to be something different from a mere examining machine and most be an institution "in which a true education can be obtained—a training of the mind, body and character, the result 'not a book, but a man."

Chap II gives an account of the Proceedings of the Committee. They held sixteen meetings and referred the details to as used; as twenty-four Sub-Committees of experts whose advice, and the assistance readers throughout by the Horbite Six Asbutch Mukherji, Vice-Chancellor of the Calcuta University, they gratefully appreciate and acknowledow.

Chap. III. The Committee proposes that the University should consist of serial Facilities—Aris, bourner, Islamo Studies, Law, Engineering, Medicine and Teaching The laboratories are to be common to all the colleges as as to make the laboratorie teaching both economical and convenient, and with a view to bringing together a large number of abbattdents engaged on advanced work.

The Faculty of Islamic Studies is a distincttive feature, but along with such studies the As regards Medicine it is proposed that at present the University is to provide instruction only in the first M.B. course along with other science students as in Cambridge, the students going to the Calcutta Medical College for the rest of the instruction required for the final M.B., thus obviating the necessity for a separate Medical College, and at the same time relieving, to some extent, the pressure on the Calcutta College.

students have to undergo a thorough course

in English like other Arts students.

In Law the Committee has overruled the very valid objections urged by Sir Ashutosh Mukherji against having a Faculty of Law at Dacca and has struck a middle course. The new University is to be affiliated to the Calcutta University in Law, although there is to be a separate Law Department at Dacca to enable the students of Law to pursue their post-graduate studies for the M A. simultaneously with those of Law. This is just the contrary of the principle followed in Madras where post-graduate study for the M.A. is made impossible for a student of Law not only by the hours of attendance required in the Law College, but also by the conditions imposed upon the M.A. students who receive a Government scholarship.

Chap.IV is headed 'Colleges and Students.'
The Committee propose to have three general
colleges, three apocal colleges, viz., one for
Mhammadaes, one Women's college and one
college for well-to-do classes; two technical
colleges—Engineering and Teachers'; and
two departments, viz., Law and Medicine.

two departments, tri, Law and Medicine.

The establishment of a separate college for Muhammadans can be justified on the ground that the habits and customs of the Muhammadans and the nature of the Islamic studies differ so much from those of the

other Indians. The question of including a separate tol for Sanskrit and Rechminical studies also was referred to the Sanskrit Sab-Committee, but this Sab-Committee was against it and advised that the experiment should be tried in connection with the existing Sanskrit College in Calcutta itself. For obvious reasons a separate Women's college is absolutely necessary, and its establishment would give a great impetus to female education in India. If it becomes a success, as it is sure to be, Government may induce other Universities to establish similar colleges for themselves also. The Committee rightly consider that the course of studies in such a college should include domestic economy, bygiene, pursing and training of children and also some science subjects both for the general students and for girls who propose to take up the study of medicine. The preliminary scientific training provided for in this college is likely to afford a great inducement to Indian girls to turn their attention to medical studies and this with the completely equipped medical college for women which it is proposed to establish at Delhi, must supply, to some extent at least, the great need for female medical practitioners

in India.

We cannot, however, approve of the idea of a separate college for nobles. The reasons urged for it by the Committee do not seem to us to be convincing. There is no doubt that the higher training of these classes is of the utmost importance to the State. A highly caltured class of nobles will be a powerful force for the advancement of the country, and its desirable to create in them a love of learning because it is only they that can pursue knowledge and scholarship for its own aske, and by their patronage of the fine arts can help to raise the level of taste in the nation. Nobody can dispute the urgeat

the British 'tone' of the administration, by ruling out 'simultaneous examinations,' the Beahman and the Kayastha want to shot out nanotism by having every door to office guarded by the examination dragon, the non-Brahmin of South India desires to prevent all offices from falling into the hands of one caste, by resorting to nomination, the Mussulman demands more than a fair proportion of places reserved for his community that Islamic ideals may not be lost sight of in administering the affairs of the Moslem population, but behind the back of the brains of most of the witnesses, there seems to be acting the consuming desire of-as much as possible of the loaf for me and mine Not that this is an unnatural or ondesirable motive, but it is there to the exclusion of other equally desirable ones Not a witness has spoken about the much more important question, what kind of education makes the proper civil administrator and how to secure it. To our mind, the true interests of India demand not that there should be in the ranks of the administration a proper blend of the supposed characteristics of races, religious and castes but that given vone man. Britisher or Indian. Hindu or Muhammadan, Brahmin or non Brahmin, howto educate him for his work. At present, the special virtues of the Civil Service, Imperial or Provincial, are sought to be evoked by the memorizing of the irregular verbs of Greek or Sanskrit or Arabic, the stocking of the mind with physical constants and metaphysical theories, the puzzling over mathematical riddles and historical mysteries. All those studies that will make for a good administrator are carefully ruled out of court by the Civil Service Commissioners, University Syndicates and other similar bodies, because

these consist of men who have themselves gone through a similar grind and who have been quite safe from the touch of the fire of moderansum in studies. They are all men from the older Universities, and stand up for meaningly light.

The first and foremost pabulum on which must be fed a budding The Education of a Civilian Ad civilian administrator is anthronology. India is a ministrator vast museum of authropology, all kinds of cults, all degrees of barbarism as well as of civilisation are found in the country, bence an administrator is no good, unless his imagination is trained to respond sympathetically to ideals different from his own and this can be done only by a study of authropology He must, besides, study law, both as a science and as an art, the want of this, at present, has developed a , terrific red tapism and dependence on caselaw in administration. He must also be wellgrounded in modern Geography and Economics, he must clearly grasp how the life of the people of any province or district is but the reaction of men to their geographical environment, he must be able to study local economic conditions due to the geographical control of local affairs. He must have au expert's knowledge of the whole of the History of India and of all her ideals not only in the immediate present but of the remote past, for in India, the past is very much at our doors. He must have some Lnowledge of General Biology and Homan Physiology, especially those sides of the sub ject that are connected with Hygiene and Public Health The amorance of the civil administrator in these subjects has been the cause of much waste of public revenue, wit-

ness the radiculous plague regulations still

obtaining in the Madras Presidency. He must have a working knowledge of German and French, so as to keep in touch, if time would permit, of modern advances in that side of science which aims at the immediate amelioration of human life-conditions. Above all, he must have a thorough knowledge of two at least of Indian vernaculars; not the ability to frame half-a-dozen sentences in the learned bookish dialects and receive an honorarium for this feat, difficult alike to the native or the foreigner, but to converse freely with the man in the street, to write down what he says, if not in the difficult native script, at least in the international Romic, and to read petitions and diaries in the same script. This knowledge of the real vernacular should be a sine qua non of all appointments in the civil departments. It is impossible to learn to speak a foreign

, language in a short time (and without an agelong stay amidst the speakers of that tongue), unless one is trained in phonetics. A thirtyhour individual training in phonetics is necessary for each civil officer-Indian or other-who seeks to serve in India. This, we conceive, is the proper scheme of studies for an administrator. Whether you select him for possessing memory-power enough to pass muster in a written test or you nominate him because he is the wife's brother's sisterin-law's son of a man now in power, let him undergo the course of training indicated above, before or after being chosen and there is some chance he will be worth his salt. He will certainly be better prepared for his work than one who has merely learnt to manipulate the Greek gerund, the Sauskrit Almanepadam, or the triple-joined Arabic root and other educational eidels invented by the monks of the Middle Ages.

the British tone of the ser-The British tone vices should be maintained. in the Public Ser-

but no attempt has been made to consider the elements that make un the 'British tone' and whether it is in the blood or a characteristic communicable to the Indian races by education. We conceive the British tone, to consist at least of three elements: (1) the democratic temper; (2) adaptability to variation in environment; (3) a fairly high degree of incorrentibility. The democratic temper, we believe, is chiefly due to public school education and University life. In a public school, all the angles of character are knocked down and the elements of selfgovernment are learnt; the young man learns to estimate his fellows by their merits and not by their caste. Snobbery, sneakishness and other evils of oligocracy are educated out of him. The University continues the work of the public school in moulding the gentleman, polished but democratic. Hence in India we urgently need the creation of boarding schools and teaching universities: and 'class' colleges, denominational schools, and departments of Moulvi or Pandit studies. &c., are very reactionary movements. All institutions that are devised to 'protect' the sanctity of the Brahman, or the Imam will arrest national progress. Such movements are anti-democratic, teach men to appreciate not merit but birth ; what is more the Pandit and the Moulvi is a petrified, immobile creature. He shuts his eyes and imagines that the world is what it was a thousand years ago. Instead of encouraging this, on the other hand, every Indian official of a fairly high standing should be encouraged to go to Europe, of course before his mind has been crystallized. Lastly the incorruptibility mentioned above is chiefly 126

dae to the British official having no local interests or connections. It is easy to be above temptation when there is no temptation about you. The Indian official can easily be trained to be above prejudee, if he is not allowed to serve in districts where his mother tongue is applied, or in his native province. Then there will be very little complaint about caste prejudices corrupting public administration.

We have much
"The Indian
Constitution"

Constitution Responsible Volume by Mr. A
Rangasami Iyengar RA. Bu

Assistant Editor of the 'Hindu," which supplies a longfelt and real want on this all important subject. In south of the deficulties and responsibilities of the author in the prepara tion of an unnortant book like this be has succeeded in making it a thorough success all round though this is the first attempt of its kind in India The book treats of the origin, growth and development of Indian constitution from the establishment of British sovereignty in India, up to the period of the all important and far reaching reforms mangurated by Lords Morley and Minto and which are so successfully carried out by the sympathetic and broad minded policy of Lord Hardinge It is common knowledge now that the early East India Company chartered by Oneen Elizabeth had not even a distant notion of the goal it was driving at and often mistook the nature of the situation in which it was placed Skilful at counter work and matured by training and associations, subordinating the acquisition of political power to the commercial interests of the Company. the Company's servants, almost from its early settlement, were obliged, out of their instinct of self preservation, to take one side or other

in the wars that raped around them. This led them, step by step, to take leading part in such wars till they were themselves forced to assume sovereign power; curiously enough, by internecine fends and decay of native sovereignties, large pieces of Indian territories passed into their possession and rule , all this, in soite of the policy against acqualition of territory and frequent protests from the Court of Directors and without the least shadow of a thought or consciousness that the Company was drifting into universal suzerainty of India. A book dealme in detail with the formation and consolidation of our Indian Empire, tracing, step by step, the passions and prejudices that retarded the efforts of the builders of that empire and the neculiar difficulties they had to grapple at every stage, not to speak of the censure and fault findings of the Court of Directors, is yet to be written and is no easy task Contributions of materials tending towards that end will be welcome at any time. The appearance of a second and enlarged edition of this valuable book is opportune especially now The first six chapters are devoted to the frame work of the Government of India and its relation to the Imperial Government and as to how it is controlled and how its machinery regulated from without The succeed no four chanters deal with the Legislative power in British India and in Chapter XI is briefly and clearly pointed the relation that exists between the Executive and the Leg slative department of Government. The passionate love and regard for law, that is the characteristic feature of the Angle-Sezon race and that has found expression in the Imperial Parliament, finds indeed its echo in the constitution of the

Legislative Assemblies of India on which depends the future destiny of our empire and its material progress and the learned author might have lingered a little longer on this part of his story. Indian Courts of Justice and their constitution next occupy his attention which is followed by a chapter on Indian Finance. The policy inaugurated by Lord Mayo's Government-the policy of decentralisation-is briefly referred to and so also the existing settlements. The author would have done better if he had referred to them in greater detail and suggested some possible ways for their improvement. The relation of Native States to the British Government and their forming an integral portion of the British Empire, though for all internal administration they are practically independent items, is a topic of absorbing importance and has an international interest. In the author's account of the Native States, one misses the account of the judicial establishments and the safeguards that exist for the due administration of justice and for securing harmony between the British Indian and Native Courts so as to prevent a failure or miscarriage of justice. This is a subject beset with considerable difficulties and as Sir Courtenay Ilbert remarks, "there are quicksands at every step." After considering the Indian Budgets and the rules regulating them and securing a careful audit of Indian expenditure the author concludes his book with this paragraph which gives a keynote to all solid progress in these words: "The true disposition to further the common good in its highest form so necessary for future progress of Indis, can only be attained by the rulers of the land ceasing to take parrow views of mere administrative thoroughness and by taking and imposing on the adminis-

tration, broad views." A perusal of the book shows enough of the author's thoroughness and complete mastery of this difficult subject and of the painstaking care with which be has completed his task.

We are surprised to see that the Indian Universities (except Bombay) have not thought if fit to introduce Indian Constitutional History for any of the Arts Examinations, although the subject is one of absorbing interest and importance to Indian students nowadays. After the publication of this excellent book on the subject the Universities have no excuse on the score of the want of a suitable text-book. The Bombay University in its usual wise manner has at once taken the opportunity and prescribed Mr. Alyangar's work as a text-book.

We strongly recommend this useful and instructive book not only to students of politics but also to students of Arts and Law courses. The book is neatly got up and is priced very moderately at Rs. 3.

Copies can be had at the "Hindn" Offices Mount Road, Madras.

On the first of March will be opened at Vizzgapatama High School for Hindu girls. This is practically the first con-

iten to the fora for Hindu girls. This is a considerable experiment in the secondary education of girls in the mofassil and it is hoped that those people of the Northern Telegu Districts who have been speaking on platforms eloquent speeches on female education will send the girls under the sphere of their inducance to the High School when it is started. One solitary High School in one solitary remote town of the Presidency will not solve the problem of female education. In Calcutta astrong committee has been organized to consider the question and we have reasons

to think that a similar committee will be appointed in Madras. In selecting members for the committee we hope the Government will not choose men as was done for the religious instruction committee, is, appoint men who have been delivering neat platform orations on the subject, when this latter committee met, it was found that the people who could orate, could not create a practicable scheme On the contrary, we want men who know what they want and can devise means for getting it A question, the committee might consider, is that of taking education to married girls instead of the ineffectual effort to immediately break conventions The education of married girls is really bound up with an economical problem in India, for every married girl takes a definite part in the household duties and any scheme of education which will take them away from their homes during the hours when they have to work there, is doomed to failure Therefore instead of trying to teach all girls for 6 hours in a school, sets of some of them may be taught for 2 hours at a stretch in beleated local centres (houses of richer re sidents) by teachers who will visit those places in rotation daily The teaching hours may be arranged so as not to clash with the working hours of the girls

The great bane of medieval methods of teaching whether followed Formalism in by Moulvis and Pandits

Teaching by Mooiris and Pandits or Professors of Colleges is the idea that "the mettal power acquired by exercise of one kind of material is available when the pupil is confronted with other material." For generations Lacidi was imposed on unwilling schoolboys, because it was supposed is made people logical. Herois doses of grammar were given, because grammar gave man oral discipline. Getting up interminable word lists developed mem-

ory We now know this is all undiluted Mental powers are not absolute entities but are correlated to the matter of knowledge One man has a memory for faces, another for names Hence the absurdity of making written examinations which test but one kind of memory, the means of judging school-work or the intelligence of pupils Hence the necessity, too often forgotten, of suiting the syllabus of work to the aptitude of pupils, it is futile to attempt, as is so often done, to suit all pupils to a cast iron syllabus People who do not understand the psychological basis of modern methods of teaching cry out against what they call too early specialization It may be possible, in the case of a pupil with no aptitude for scientific procedure but with artistic instincts, to stifle out his natural propensities and to do some work of little value in the field of science, but is the murder of the soul the object of school work? That it is so now is a fact. But should not this be bettered? This same formalism is at the base of the theory that wrestling with the Greek grammar, or as Dr. Macan has called it in his presidential speech at the Modern Lan guage Association, the 'subcutaneous injection of a minimum of Greek" into a man, makes him develop qualities which will make him a good Collector, a good Magustrate or a good Jadge

We have referred to this subject in a manufact of Tashing History that the latest source book sent to us for review, by Arthur Inney, published by the Cambridge Press, has brought again windly the fact that the Sourcements of teaching History, like the Direct

method of teaching foreign languages is not

the latest fad of an over-earnest Inspector of

Schools or of an over zealous schoolmaster, but

This is evidenced by the haste with which publishers are vying with each other for bringing out books on the lines of this method. The more advanced books which Indian teachers could use with advantage are Colby's Selections from the Sources of English History, Adams and Stephens' Select Documents of English Constitutional History, Medley's Original Illustrations of English Constitutional History, Kendall's Source-book of English History and Henderson's Historical Documents of the Middle Ages. There are besides at least four well-known series of source-books. Black's English History from Original Sources, Marshall'a Illustrative History, Blackie's Readings in English History from Original Sources, and Nutt's English History from Contemporary Writers and Scotch History from Contemporary Writers. For school-use Keatings and Frazer's History of England for Schools is very good, for it gives the story of England, select documents and exercises on these. Innes' Source-book is an excellent collection of extracts, but the teacher is left to devise for himself the problems thereon. In the hands of a good teacher who can think for himself and not go to an Inspector of Schools or an Examining Board to draw out syllabuses for his use, it is likely to be of much service. Our readers may perhaps recollect that towards the end of 1910. our City Fathers were The Madras Corporation " Model Schools" discussing a scheme for

Our readers may perhaps recollect that
The Midras Congratue
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Model Schools
Mode

to effect any improvement in their accommodation and equipment or in respect of teaching. The Committee therefore considered that instead of contributing to finance their institutions, the Corporation would do well to open schools of its own, with proper accommodation, equipment and staff and gradually absorb the existing schools as far as possible. They accordingly recommended (1) that the Corporation should undertake to build 40 schools at the rate of 4 schools each year, the cost of each building with necessary equipment not exceeding Rs. 10.000; (2) that the schools built in one year should be maintained by the Corporation from the following year at an estimated cost not exceeding Rs. 1,174 per annum for each school; and (3) that the Corporation should, in consideration of the heavy outlay involved in the scheme, be relieved from the liability to pay teaching grants to Elementary Schools in the city.

These recommendations were accepted by the Corporation, and in G.O. No. 820, dated 25th May 1911, the Government approved of the above scheme for the construction and mainterance of the schools and exempted the Corporation from the payment of teaching grants to Aided Elementary Schools in the city for the 10 years which would be required for the completion of the scheme.*

In 1910-11, before the above scheme was annetioned, the Corporation constructed a model Elemontary School in the compound of St. Addrew's Church, Chulsi, at a cost of Rs. 6,610, and handed it over to the Arch-Bishop of Madras on his executing a registered lease deed agreeing, among other conditions, or ministain an Liemontary School in an efficient conduiton and pay an annual rent of Rs. 60 to the Corporation.

The exemption took effect from 1911-12.

The first four schools to be constructed during the last official year [1911-12] were decided to be located in Poecamalies Road, Vallaba Agrahama Street (Triplicane), Sanjvarayan Koil Street (Royapurau), and in Chalia Bazaar Road Sites were acquired for the construction of the schools, but for some reason or other, the sites in Royapuram and Chulai were abandoned, and new sites selected The schools in Poecamalice Road and Vallaba Agrahama have been completed and opened Classes have been started and populs are attending.

The Vallaba Agrabaram Street School has been built at a cost of Rs 12,000 and it can accommodate 160 to 200 pupils. There are to be 6 teachers with salaries ranging from Rs 15 to Rs 25 The fees to be levied in these model schools have purposely been fixed very low, ranging from nil to 6 annas per month

We congratulate the Corporation on the completion—though very tardy—of the first of the several model schools proposed to be built by the Corporation, and we treat less lethargy will be shown in carrying out the general programme for the construction of 40 schools.

His Excellency

Mis Excellency

Governor of Madras, us in

Governor of Madras, us

keen interest in educational matter: His Excel

lency washes to see all institutions and obtain

first hand information about their condition, their

staff, their pay, the strength, accommodation and

other details

During und a short time His

Excellency has vioted a number of educational

institutions.

His Excellency accompanied by an A D Cowas received on arrival at the following institutions by Rao Bahadur A. C. Pranatharthihara Iyer and the staff of the institutions The Madrasa i Azamo,—23rd January 1913 E L M. klementary School, Kottichery—30th January 1913 The Hindu High School—30th January 1913.

His Excellency visited the following schools accompanied by an A D C and Rao Bahadur A. C. Pranatharthibara Iyer

55/ Kirwary 1913 The Arya Patasala st Thumbu Chetty Street, The Muthalpet High School, Muthalpet, Ramanujam Chetty School, Caral Misrchant Street, Moses Nadar School, Monigar Choulty Road, D. L. M. Bethany School, Cemetery Road, Government Panchama Training School

6th Pebruary 1913. The Hinda Theological High School, Mint Street, The Progressive Union School, Audyappa Naick Street, Mrs. Lazarus' Poor School, Elephant Gate Road, E. N. Vania Sangam School, Rasappa Chety Street

12th February 1913. Corporation Panchama School, Periamet The S F G High School, Vepery , The Government Muhammidan Training School, Mount Road , The Wesley College, Royapettah, Damodar Free School, Teynampet

In addition to these His Excellency has mitted The Madras Christian College, The Pachayappa's College, The Buckingham and Carnatic Mills Half Timers, The W. P. C M Hindu Girle' School, Thumbu Chetty Street, and Madras Girls' Day School, Acharappas Street,

We have no doubt that the personal knowledge which His Ercellency acquires by these risits of Educational Institutions will bear fruit in due course.

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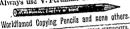
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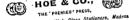
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A REVIEW.

Indispensable for Students of History and Economics. INDIAN MONETARY PROBLEMS

By S. K. SARMA, B.A.

Mr. D. E. Wacha writes: "I have carefully gone through page after page from first to last Mr. D E. Wacha writes:—"I have carefully gone through pages after page from first to last and I cannot but congratulate you can unstreeditable production. You have been and I repeat reflects the greatest condition you. Your comonities have stood you is good steed in superparticular reflects the greatest production. You construct the production of the p production of this contacted now are and tabling and your own criticism is on the whole sound. This so intelligible. The quotaions are apt and tabling and your own criticism is on the whole sound to the hand of every educated Indian for it contains an admirable presentment of the whole problem of Indian Currency historically, tatalistically and critically whole problem of Indian Currency historically, tatalistically and critically whole the whole problem of Indian Currency historically considerable merit diagram, as historically contained to the contained to take a little too much for greated when I have the ready of youthings like Mr. Webb, who are inclined to take a little too much for greated when

their fads on the public " " writes :-- " Is is extremely interesting, to find that Indians are taking The " Indian Bully News " writes :-- " Is is extremely interesting, to find a work like " Indian Monatone Pastian."

The "Indian Daily News" writes:—" it is extremely interesting to find that Indians are taking to interest themselves in the correcty matter and especially to find a work like 1 Indian Monetary Problems to interest themselves in the correcty matter and especially to find a work like 1 Indian Monetary Problems to interest themselves to the work of the work of the persons who of Mr. S.K. Standard to the work of the persons who of Mr. S.K. Standard to the work of the persons who of the p

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The "Hindu" "writes; --- The anthor has done a useful service to students of the ambject is
The "Hindu" "writes; --- The author has done a market a monetary maller than the students of t The "Hinda" writes: --- "The author has none a metal service to students of the subject is numerically in a systematic manner the history of this country's monetary policy from the earliest times numerically in a systematic manner the history of this country's monetary policy from the earliest times Price Rs. 2 only. of British rate.

students would enable them to spread modern ideas of science and economics among their less fortunate brothren. What surprises us, however, is the strange in consistent position of the Indians in that those who were loud in their clamour for the re introduction of the vernaculars in the University curricula should now come forward and say that the Government grant should be utilized, not for the encouragement of Vernacular studies, but for the promotion of scientific knowledge. Does it not show a childish indecision, if not a want of sincerity in the advocacy of the cause of the vercaculars. It discloses a childish petulance and reminds one of the conduct of the child who having obtained the toy he most desired becomes dissatisfied with it as soon as he has got it and wants some other It demonstrates the hollowness of the cry for the vernaculars, but what is worse, it discloses a dangerous tendency in the modern Indian politician to give every question a racial turn, and look with suspicion upon every public action of the Europeans as well as to characterise the Indians that agree with them as nopatriotic sycophants and toadies trying to please the powers that be for some selfish ends of their own This attitude of a class of Indian politicians is bound to tell sconer or later upon the social and other relations between the two classes and end in disaster to the country. One speaker at the Town Hall (public?) meeting in connection with the study of the vernaculars the other day said that in the matter of the vernaculars the interests of Indians alone were concerned and that the European members of the Senate ought to have abstained from voting on the question Can this principle be consistently followed? How many academical questions are there

in India which are not exclusively concerned with Indians? And for the matter of that, was there not in the Seaste a large number of Indians themselves who voted against compalsory versaculars and who might be credited with as much patriotis feeling and as much 'independence' as those who voted for it?

However, this by the way. To turn to the main question First, as to the study of the vernscular literature by the University stu dent during the whole of his career as a means of keeping alive among Indians Indian traditions and Indian culture and to prevent the denationalisation of the Indian boys, and also as a medium of moral and religious education Vernacular literature is wholly and essentially Handu, while the Upiversity students belong to all classes and creeds Will the University as a public institu tion, and bound like the British Government to religious neutrality be justified in imposing the Handu traditions and religious dogmas on the large number of Mahommedan, Chris'ian, and other non Handu students whose vernaculars are the vernaculars of the countries in which they live? Surely the Mahommedans and Christians would naturally resent such action just as some Hindus think that Christian schools should not compel Hieda pupils to attend their Bible classes. These, however, have the option of avoiding Christian schools, but those being Dravidian non-Hindus will either have to learn some other second language or give up University training altogether if they wish to avoid learning things repulsive to their religious sent ments. The advocates of the vernaculars speak as if it were the most natural thing that Indians should be imbaed with Indian traditions, but they overlook the fact that it is the Hindu

traditions and not Indian traditions that they thus seek to impose upon the students, and that the University is not for Hindos alone. This is a point which they have conveniently ignored, but which I hope will not be lost sight of in future whenever the question of the vernaculars is again brought up before the Senate.

Even granting that the University exists only for the Hindus, is it necessary to continue the study of the vernaculars through the whole University course, and is there sufficiently serious matter in the vernacular literature to make it worth the while of a modern University student to spend a great part of his precious time over it? and what, after all, are the traditions that are to be learnt and what are they worth? That the Vedas (which we can never read) are sacred Divine revelations, that God created the four castes, if not all the thousand and one now prevalent, that the Brahmin is superior to all other human beings, that it is no shame for him to beg, that there are thirty-three crores of gods and goddesses, that the earth rests on the head of Adisesha, who rests on the back of a tortoise, that the eclipses are produced by the monsters Rahu and Ketu swallowing the sun and moon who can be rescued from their jaws by your offering prayers during the time, and so on, and so forth. Is not such the pabulum with which the student is to be spoon-fed all his life by that most loving of grand-mothers, the Pandit? If so, does he not imbibe enough and to spare of it at home from the cradle upwards? and can he not be weaned from it even after the eleven or twelve years which be spends in the High School? Do not his mother and grand-mother know these traditions without their ever having learnt even the vernacular alphabet? I should therefore

think that if instead of the Vernacular text-books now taught in the classes up to the Matriculation which are nothing but translations of English readers, and so simply a repetition of the same ideas they learn in English, proper text-books consisting mostly of extracts and matter from Vernacular literature be introduced, a boy would have learnt a good deal of that literature itself and the ideas it contains-enough at least, to create in him a taste in such literature if such a thing is possible. For, after all, it is his own vernacular, and he must be able to read a lot of it out of mere love (?) for it just as an English boy reads his Shakespeare, his Tennyson and his Robinson Crusoe for himself while still very young. No University student in Europe, or even in India for the matter of that, is compelled to study his own vernacular literature after he has entered the University.

As for the culture value of the vernacular literature the less said about it the better. This was avowedly the reason why the late Mr. V. Krishnaswamy Aiyar and Rao Pahadur Professor M. Rangachariar and several other Indian Fellows of the University thought that it need not be continued as a subject of compulsory study in the new University courses. Ninety per cent. of all Vernacular literature is trash, if not worse, and if we exclude the several versions of the Ramayana and the Mahabharata and in Tamil, the Kural and one or two other works, there is nothing in those literatures that will command the respect or admiration of an English educated gentleman whose austhetic taste is not corrupted or who views them from other than an antiquarian or philological point of view. Little blame to the student who has been accused of neglecting and even bating it when

has taken in all educational institutions, public or private, he has given a lasting atimulus to thought in this direction.

The first point to be considered in the formation of any educational system is the object it is intended to fulfil. The matter and the method of teaching cannot possibly be decided upon until that point is settled. The system of education hitherto adopted by the British Government in India has had for its object the production of Government officials to help the British Government to govern the vast territories under its sway, This was admittedly the end in view when the first educational institutions were organised under Macaulay's advice. The mistakes of great men are said to be at least as powerful a source of evil as their talents. if properly applied, are of good Newton's mistaken theory of the propagation of light stopped all progress in that branch of science until recent years. Macanlay's narrow views shout the education of India has had a similar effect in blinding people's eyes to the true end of education, 'which' says His Excellency, 'is to prepare men and women to perform their duties in life

This end boing admitted, the old order of things must necessarily change and yield place to the new But in a country which has been reating for conturnes together, change is not an easy matter. The capacity for change, for adaptation to altered environment, is, no doubt, the sine qua mon of continued the and India will live again only when it acquires that capacity. But that will take time. For the present, it is the duty of the educated few to lead the way in this matter and be prepared to change, if change is admittedly desirable. Some of our great admittedly desirable.

changes, seem to think 'Has not the system produced us? Where is the necessity for change? What greater men can the new system produce?' We must take a broader view of the matter than that. Let u., for a moment, consider what the greatness of our great men consists of, and let us put them in the balance against the great men of the world The modern world hinges not so much on spiritual as on material progressi not so much on religion as on science. Spiritualism is now apparently the only thing India has to beast of, and although, happily, it is on the decline at least in the mora advanced nations of the world, the newest fads find a breeding place in India. It will not however do to pin our faith to a muchdisputed God if we want to keep pace with the progress of the world We must have something more solid. Moral character will stand the test much better, slthough, I dare say, a nation of scientists will beat the most moral nation in the world at all points. Leaving these aside, then, can we point to any other constituent of the greatness of our so called great men? Original scientific research by Indians is hardly ever heard of High literary attainment is not so rare, but naturally of less practical value Even in this, original work is rare. Most of our good books, light or serious, in the vernsculars, are translations or adaptations. And the same may be said of original thought of any kind What is this the result of ? How do we account for this failure to produce even a few original workers when the Universities are manufacturing graduates by hundreds every year? Evidently there must be something radically wrong with the old system of education And if we examine the old system, not with the object of defending it, but for the purpose of finding out the defects, they stare us in the face. PRIMARY EDUCATION.

· The ideal system of primary education is

that which makes it free and compulsory up to a certain limit, which will naturally not include much more than the three R's. But this ideal cannot at once be attempted for two reasons. The first is the want of funds. His Excellency declared in one of his Convocation addresses that Government is spending and will continue to spend the limit of its resources on education. Here, of course, allowance has to be made for the fact that the first object of a foreign government must necessarily be the maintenance of an adequate military force. Let us hope, however, that Government will sometime be in a position to do more than it is doing at present. In 1909-10 special grants were made for primary education, and the result, according to the official report, was an increase of 71 per cent. in the number of primary educational institu-

tions. The second difficulty in the way of compulsory primary education is the want of efficient teachers, although, of course, with sufficient funds, teachers could be trained. It is found that of the head-masters, more than half are untrained and of the assistants, only I are trained and I have passed the Vernacular Final. Of head-mistresses, 2 are trained but of assistants, are untrained. The minimum pay of assistants has now been raised to Naturally, better pay will procure more efficient men and this is a step to be commended. His Excellency has, in fact, declared it to be the policy of Government in this matter to make primary education more efficient rather than to spread it over a wider area, because, at present, it proves in

some cases to be no education at all, and consequently a waste of money and labour.

SECONDARY SCHOOLS. As there is no question of making secondary education free or compulsory, the want of funds is not so acutely felt. There are, however, other difficulties. His Excellency remarked that only a small percentage of Matriculates were able to take advantage of any of the University courses, inferring that a great many pupils went up for Matriculation who should not. Also, the school classes had everywhere grown to such an extent as to be beyond the capacity of one teacher to manage ad-quately. Government thought it desirable, therefore, to raise the fees both in Government and in aided schools, though not to the same extent in both, and also to restrict the number of free students. Again, it is wellknown that a large number of Matriculates do not know English enough to enable them properly to understand lectures at college. The remedy proposed is to teach some subjects for the Matriculation in the vernscular and to allow papers in them to be answered in the vernacular at option, the time thus saved being devoted to develop a greater general command of English. Also, to relieve the pressure of the examination still further, science, geography and the verpscular have been omitted from the examination, a certificate of progress from the head-master being sufficient. It is to be hoped, however, that a strict supervision will be maintained over all schools to ensure that these subjects are properly taught. Even before, very few schools could boast of an adequate laboratory and this evil is likely to increase in the absence of strictness. Other minor changes have been made in the school carriculum, and Government also proposa that the School Final Examination should be considered equal to the Matriculation for University purposes

Here, again, arises the question of trained and untrained teachers. The Secondary Training College has now been in existence for seven years and during this time must have produced a good number of trained teachers But my personal experience is that head masters and even inspectors do not take kindly to the up to date methods advocated at the Training Coilege Inspectors insist on the observance of mechanical methods, which perhaps make the task of inspection easier, and head masters, consequently, in some cases actually refuse to allow any new methods to be followed. We meet again the argument 'we learnt under the old methods and we are fit to be Inspectors and head masters' etc. Now, as at present there are no trained head masters, the evil will continue until the majority of head masters are trained (who is to train the Inspectors by the way ?) se, for a pretty long time

'Transfers' is another cause of inefficiency and although I had heard that there would be no more transfers for promotion, one still sees teachers transferred for no apparent reason, and naturally the classes assister

The Bombsy Presidency compares favourably with other provinces in the matter of expenditure on adoctional institutions, both Government and Municipal, and also in the number of public institutions, although Rengal and Madrias are far ahead in private institutions. Also, the number of scholars in proportion to the population is the bigbest in Bombay

THE UNIVERSITY

Some of the most important changes due to Lord Sydenham are with respect to the corricula of University examinations

Owing to proposals laid by the Government for consideration before the Senate, the curri

culom for each examination has undergons considerable modifications. It is here possible only to note the more important ones. After 1913, the Previous Examination will not be held by the University, but by each college for itself. A certificate from the Principal of the College will be a passport to other coarses as the P. E. was before Practical Physics takes the place of History, and the course in Mathematica has been extended to the whole, students will have to work much barder, and the portion in Mathematics is too much for one year.

At the Intermediate, Physics has been replaced by Indian History and Administration, and as I think Science more important than ereo Indians History I think the changes for the worse. The option of Logic for Mathematics will certainly be valcome to students, the latter being the bugbear of the average under graduate. This also allows the course in Mathematics to be extended, so as to include the portion essential to students who wish to take up Science at the BA.

All these lead up to the greatest and most disputed change of all, tir, that at the B.A. As finally adopted, the new curroculum has only one computery asbject, Regista Language and Literature, and a voluntary subject has to be chosen from five group: There are separate coarses for Honours in the voluntary subjects, there being three additional papers for Honours.

At the M A there are only four branches: Languages, Philosophy, History and Mathematics, the last bung divided into two groups. Pere and Applied Physics, Chomistry and Natural Science are omitted in Lunguages, it is not now compulsory to take Eeglish, but any two may be chosen provided a veramedise its accompanied by a classical language. It looks rather strange to allow the veramedises at no other examination than

the M.A. Another notable feature is that Pall has been admitted as a Second Language at the higher examinations. The course in Mathematics is considerably augmented, scope being given for original work by taking it into consideration at the examination.

At the Inter-Science. English is omitted. and any one of four groups (of three subjects each) may be chosen.

At the B. So, there are seven groups of two subjects each, one to be the principal subject and one subsidiary.

At the M. Sc. (which did not exist before) there are six subjects, one of which is to be selected. Here, also, original work will be considered as at the M.A.

There have also been changes in the curricula of the L.M. & S., M.B. B.S., and LL.B examinations and those of the examinations in agriculture have undergone considerable

modifications. Finally, there is the new Faculty of Commerce. The course in Commerce takes four years after Matriculation, the first year's course being the same as for the B.A. One year more is required for the Inter-Commerce and two more after this for the final examination for the degree of Bachelor of Commerce.

It will be seen that the guiding principle followed in the above changes is that the real value of education depends, not on the number of subjects taught, but on the thoroughoust with which they have been taught. greater the number of subjects attempted to be taught, the more superficial is the knowlodge acquired by the papils. Hears the cutting down of superfluors subjects, especially at the il.A. There being now only two subjects to read for that examination, the spare time can very well be given to soy other subject the student has a fancy for, and in this he will be free from the pressure of examination. Apriler delett principle is the old course

is a want of continuity. A student could never properly gauge what B.A. mathematics, for instance, would be like from what he knew of the subject till then. A similar gap existed between the B.A. and the M.A. courses. These have been nicely filled up in the new arrangement.

It need hardly be said that before changes on this extensive scale could be decided upon by the Senate, there were many hot discussions as to the utility or otherwise of particular subjects. There were in particular two, about which the greatest differences of opinion prevailed. One was

Herney.

There can hardly be two opinions as to the value of this subject when properly taught. But, as His Excellency once remarked, the teacher of History is born and not made. I must confess to having conceived a violent dislike towards the subject, merely because, although I was at one of the best schools. I did not meet that born teacher. I only regret the time spent on it, which might certainly have been better used. So far for Matriculation History, which to me consisted merely of dates and events ! At the P. E., matters were little better. Besides, what can those little books prescribed for it really say about either Greece or Rome? About the introduction of History at the Intermediate, we find the following remark in the Government sammery : Political agitation exceed Government to provide a correculum giving youths a clearer greep of facts and circumstances concerning India's position in the Empire and a better chance of serving ber soundatio seeds.' There seems also to be odw sects the argument that these who have a penchant for the embrect may take it up as their optional. The forced stally of any est had is so stady and the burden of two compainer papers in History was really a beary our. All arguments for horper the subject fall to the ground when it is remembered that a subject studied drily for examination purposes is soon forgotten and sometimes hated for over after

SCIENCE

Another much discussed subject was Science. After the praise bestowed on it in His Excellency's first Convocation speech, it is rather disappointing to find it given so little importance in the curricula. In the first year's course in Arts, where it occurs as 'Practical Physics' one finds a most important branch, electricity, altogether omitted At the Intermediate, it finds no place. At the BA, the Senate insisted on retaining it in opposition to the original proposals from Government. And it is dismissed from the M.A course The Government argument was that those who wanted Science may take the B Sc. course, which, as a qualification for Government service, would be engal to the BA But in that way a student would have had to forego either English or Science. and the Senate acted wisely in allowing both to be read together at the B A The Government, of course, held its own in so far as it does not now provide for Science for the B A course at the three Government colleges The Government has however done a great deal for science in another way, namely, by the establishment of Science Institutes at Bombay and Ahmedsbad, mainly intended for post graduate courses of study

Two other supposed branches of education remain to be considered. The first is

RELIGIOUS EDUCATION

If education has anything to do either with training the mental facilities or with imparting correct knowledge, 'religious education' does not, to my mind, convey any sense. For purposes of revension, 'religion' is often supposed to include 'duty to man' as well as 'duty to God'. The former, however, rightly falls under 'morality,' which has no councer.

tion with religion, may, it sometimes opposed to it. Considering 'religion' then in its proper sense of 'daly to God,' we find, in the first place, that the very existence of this God, as to put it mildly, a dispited point Consequently, any structure based on His supposed existence is of very doubtful value. Religion very often says one thing and modern science says another. If, then, modern science is clowledge, dand we regard it as suchly, religion is the direct opposite of knowledge, i.e., ignorance or superstition. I fail therefore to understand how the imparting of correct knowledge can be religious, or how a training in superstition can be called education.

Again it can certainly not train the mental faculties to be taught to believe without evidence, as religious people have to do fact, belief not being a voluntary function of the mind, 'religious education' (neglecting the contradiction) must, in a great many cases, lead to hypocrisy and is to be deplored find in the Government summary nreparation of a series of moral and religious hand-books for use in schools. These religious hand books can in no way justify their exist. ence in the twentieth century if ever they could and their effect on school boys will be to steep them in superstition We are told that they are intended to be a preventive remedy against illegitimate political agitation A casual glance at history should have served to warn anybody that religious beliefs have been used, times out of number, to create political disturbances It is well known that Shively used them for his purposes, and it was quite as illegitimate then to plot against the Mahommedan Government as it is now to plot against the British And more recently, was not the Great Mutiny itself fomented by a superstition, which is the invariable accompaniment of, if not synonymous with religion ?

Besides does any one really think that any amount of religious or other teaching would have transformed bomb-throwers into peaceful citizens? It is nature that does these things, not education. How many Christians follow the advice of Christ and, when smitten on one cheek, offer the other for like treatment? In fact, has not the rise of the Christian nations been due to their doing the exact contrary? No people put the tenets of their religion into practice unless they are forced to.

And religious education is not at all necessary. Have we not the brilliant example of Japan pointing to the fact that a pation can rise by a purely secular system of education?

It is certainly to be deplored that sectarian Universities are being proposed which will necessarily give more importance to this imaginary education.

MOBAL EDUCATION.

Moral education is quite a different matter, although opinions may differ as to how far it is possible. It must be remembered that the home and social environment determine the character of a man much more than any school or college education can do. In India especially, where there are practically no boarding schools, and college hostels, where there are any, accommodate only a limited number, echools and colleges can have but little influence on moral character. And besides, do not the existing text-books amply satisfy the moral requirements? Each series of readers contains a good many moral stories and these should be quite enough in the hands of capable teachers.

The next question is 'How far are the moral principles taught in schools capable of being put into practice?' Even with regard to the most elementary principles, there are difficulties. A man who always spoke the truth would be out of place in any civilized society. History will point to the fact that England owes its present position not toa mind that lightly letteth go what others prize,.....an unrevengeful spirit, as

advised by the Bhagavad-Gita, but to a bulldog tenacity, which is the exact opposite of it, and so on to any extent. Besides, on complicated points there will be considerable differences of opinion. On the whole, the personality of the teacher will do more for the development of morals than any textbook. However, the books will not, at any rate, do harm. One thing may here be noted. The older

generation is rather fond of attributing want of reverence to the younger. The younger may justly retort : 'Deserve reverence and you are bound to get it.' As the Sanskrit poet has it, ' Everything is not good because it is old, and, in a progressive world, everything has to go on its merits. To my mind, the charge indicates an amount of vanity in those who make it.

Looking back, one finds several encouraging items in the educational events of which we have taken a brief survey. There is certainly reason to hope that the concentration and focussing of attention aimed at in the revised curricula will lead to original work. Education has made considerable progress among the depressed classes. Ladies, too, are coming more to the front and there is a sensible increase in the number appearing for the various examinations. The Victoria Jabilee Technical Institute and the Art School are among the best institutions of their kind, and His Excellency has expressed the wish of Government to help Industrial institutions. There has hardly been any regime so important as Lord Sydenham's from the educational point of view and let us ferrently hope that the Presidency shall see many more such Governors, taking so sympathetic an interest in the condition of the population entrusted to their care, and exerting themselves in such an eminently practical way to improve it. R. D. KARYE.

NOTES OF LESSONS ON "LIGHT."-(Continued from page 417, Vol XVIII)

Illustrations appliances chagrams reference to books etc	Befrequen through a thick 1 A vay of light full egoldgudy on one has of The path of the 1st through not ontaring the path of the state of a table of a table of a table of the state of the
Matter	A rey of light fall ng obliquely on our at thick place of a transparent substance a government of the control of the control of the control of the total of the tondent ray, it is noted but a faterily displaced
Main bending	Refraction through a thick plate with parallel faces

plate the car

with advantage verify the result by drawing the paths of the ray, according to the laws of refraction two under of the plate, its thicknessand its intlination



a post or window as looked at through the object appears broken at the glass edge

Place a piece of plate glave on a sheet of paper so as to cover a portion of a few straight lines through 400 turpentine meet and state what inference can be drawn regarding the relative refractive indices of

When the object to prewed normally through plate the image is not shifted towards the the emergent ray con

water and turnenting

4. When the meterial of the plate is tenedeer | (c) In the stage of the magic lastern, fir a black than the normaling medium, the lateral dis-local plats plats with some vertical lines excitated because that it is not only a first to to that in the [only and found to in any on the screen while the phenometr is to the opposite direction to that in the [only and found to in any on the screen while the

objective. Place a thick giass plate in front of the objective. Place as the coverer it half-way up. So long as it is partially the indisc, the image is unbroken. But when it is kept vertical and turned so as to make when it is kept vertical and turned so as to make ar angle with the slide, the displacement of the image can be seen on the screen. A lighted cendle beld mear an ordinary glass mirror and looked as obliquely, produces several mages of varying brightness. When light falls upon a placeglass mirror, part of it is reflected from

case of a denser one.

Fre 81.

stand with reveral points, the uppermost for rotating Note. 1. It will be well to mount prisms The students should carefully understand the parallel to the other rays. Thus a series of images is formed, gradually decreasing in Darphtness. The front surface and the back silvered surface set like parallel mirrors. These images will not be seen in a polished metallio reflector.

isin image at o. Part is refracted unto the glass and there are there are there are the refracted as 4 from the allered articles as deliver refracted as a set as a set of this a portion is refracted into the air se differenced into the air se and producing a bright image as a lust nonther part is producing a bright image as a los nonther from the refracted back into glass, to seem back from the alleges and refracted into air, proceeding

the front surface of the glass, as bE producing a

1

Multiple images in

to experiental with prints — the primes boom far own with the result of the terms of the prints of the terms of the prints of view and the prints of the terms of the prints of the terms of the medican birds between two wateries and the cabile in bring missed or the terms of the medican birds between two wateries and to each to the bring missed or the terms of the prints of the

Refraction through prism-

(b) The refracting angle of the prism: Tho angle between the Incom.

2. Objects seen through prisms generally exhibit coloured edges, due to dispersion of light, which

any point in its length, perpendicular to the edge. The prisms generally used for experiments are trangular prisms and their principal sections are Principal section: A section of the prism at The edge (or refractive odge) : The line along (c) The edge (or refractive adge): The line alor which the faces meet or would meet it produced.

and most other experiments on deviation of light by a prism, it will be well to employ large ones. Prisms of about 3 inch-face can be obtained at a low-price from Messrs. Pye and Co., Mill Lane, Cambridge. naually equitateral or irosceles triangles.

(e) The angle of deviation produced by the (Fide the angle prism: The angle between the FON in fo. 22)

4. A prism of a liquid or a ges can be made by exclosing the liquid or gas in a bollow glass prism, the sides of which eve glass place with truly pismo parallol faces and produce no deviation.

oplically denser than the surrounding medium which is generally 3. Unless otherwise stated, the meterial of the such as glass is considered Driem.

The publication of the forest partners of persons of the forest properties of the forest propert

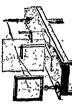
Light incident on a prism undergoes bending

emerges at the other and the total deviation is ZBAO = refract ZFOS = angle of deviation = ZFDE+ ZDEO DE = monuments 187 " Fids fig. 38
DE = path of the ray through the prism
FOS = emergent ray
FOS = money founds the sum of the refractions at both the faces AB and AC as faces of the prism ing tagle

RP, place yourself so that P is in a line with the marge of Q and sinck B as far from P as the paper will allow Similarly, by looking along SQ neset the pin S to appear in a line with Q and the image Strek P and Q on opposite sides and fooking in the prism with one eye closed in the direction of RP, place yourself so that P is in a line with the It will be found from experiments that the direction in which rays of light are deviated in away from the refree, ig edge or towards the base or

thicker part of the prism

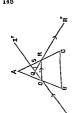
It is importent to stick S, looking along not slong RP, as in the latter case the S will appear somewhat indistinct and coloured on emergence (blue on one side and red on the other) mage of 80 and



In the centre of a sheet of blackened card-

Befraetina theungli a presm-

	NOTES	OF LESSONS ON "LIGHT."	141
board, a small holy is made and kept, as the board is the small half is the price of the price of the small half is received on a sink in the price of their is the price of their a their branch of the small half is the price of brinds that be the server of their is the price of their is the provisions with the tree positions with the tree positions with the tree positions with the tree positions with the tree price of the pric	Because the objective of the dependence from a Britan blood of the because from a profession a small kind in the case of the because it was a price in the path of the repair of the rep	01	to study deraktor that the first way of the displacement varies. Wide the displacement varies of the displacement varies of the displacement varies. Wide the displacement varies of the displacement variety of the displacement variety of the displacement varies of the displacement variety of t
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(Instrate this by using the apparatus abovenoted and drawing the red lines equidulant from he edge of the prism

pass through a prism and observe that, on rotating green a smaller dernation of transmitted light than positions on either side of it and that when in this position, a small rotation does not sessibly affect the Allow a beam of sunlight in a dark room to if about its axis there is a mean position which amount of deviation For geometrical proof, refer to L. M. Jones Physics, p. 142

the position of minimum deviation, calculate the The students may well be asked to set up prisms in nder of refraction therefrom and verify the result

its refricting edge parallel to the edge of a window-bar or any well-defined attackt line and the object A lighted candle looked at through a priem held in the hand seems raised. As an exercise, the students may be asked to carefully note and explain what will be observed if a glass prism washeld with

Note (i) In the position of minimum devistion, the index of refraction is equal to 7 BAG D == angla of deviation LTQR

When the refracting angle is very small, to == of prints

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rom the edge the object will appear, to an observer The rays traversing a prism being bant ateay coking through it, to be more nearly in the direc ave of the edge than it is.

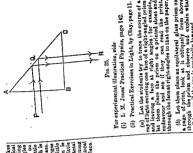
(mage formed in prism.

as seen through a prism will be at the same distance from the edge and on the same side Draw In the position of minimum deviation, the virtual inage of a luminous point (and hence of an objec) diagrams illustrating the formation of images in this as well as other positions

looked at through it. (1) when the prism is kept fixed, (2) when it is rotated slowly so as to change

the apply of tocidence of the entrant ray.

The deviation produced by a given prism is fear,
when the pails of the way (see OE in fig. 24) in the
person to principle with respect to the faces (AE)
and A O) i.e., is equally related to them Time is
and A O) i.e., is equally related to them Time is
the angle of traditions of measures derention. Here
the angle of traditions of measures derention. Here Position of minimum devia- [



Total reflection in prisms.

XIX

OUR PUBLIC SCHOOLS AND INDIAN HISTORY

METHODS of teaching in the public schools of our Presidency have changed considerably during the last decade. Any student who passed out of a High School, even half a decade ago, happening to visit the same, now, will be much struck with the improvements effected

In certain High Schools where the Science laboratory and the Science class were hiddled together in a room of not more than 20 by 20 ft or thereabout, we have now separate halls equipped with elaborate apparatus, and with provision for enabling students to carry on experiments. In short, in certain progressive High Schools, these laboratory halls are as large as the laboratory halls of certain colleges, too

A similar attempt at an advance in the teaching of history is made everywhere Especially is this the case with English History Walls of rooms are hung with pictures that represent notable scenes from English History. We see, almost everywhere, a long row of pictures. like the "Signing of the Magna Charta" the "Landang of the Normans on the English Soil," the "Clearance of the Parliament by Oliver Cromwell" and similar ones Certainly, such a series of pictures will give an accurate and undelible impression of the land marks of political history, and, the general political life of the land, to which they refer It will also picture to the curious eye of the young student the military dress and other interesting details of the customs of the land

But let us see what amount of attention the History of India receives in these schools. It is a serious contrast that we notice and much

feel for We rarely or never come across a single picture, relating to the events in Indian History The lack of instructive and interesting pictures of the sort referred to in connection with English History is one of the causes that keep Indian History, behind English History, in our schools, in this respect. Our students have more familiar impression of the Courts of Henry II, Henry VIII, Elizabeth, Charles I, &c., than of Muhammad Ghori, Baber, Akbar or Shah Jahan, or of any of the Peshwas They have a clearer idea of what Cromwell or Nelson was like than of Nadir Shab, or Raja Man Singh While, when made to read and hear of the several kings of England they are introduced to the subsidiary historic person ages of the times who took part in the courtlife of the several rulers they have not got the opportunity or the means to take peeps at any such bye-personages of the Indian History. And the necessary result of such a system of teaching Indian History is quite unsatisfactory Reading of history on such high road journey principles is certainly a tasteless and prosauc task The brains of the students subjected to such a system are not soil, fertile, for the germination of the true historic spirit or genius. The horizon of their historic information with respect to Indian History is more like the mid day sky, which is dominated by the all pervading sun whose presence throws into the back ground all the other orbs in Space. Until the sun begins to retire into the West, we do not get a look at the beauties of the evening sky or the nocturnal starry moon lit sky with its milky path The sau's light failing on and illuminating the fringes of clouds is the brightest silver tinge and the pleasantest sight Let, therefore, for the] sake of the human interest, which these subsidiary historic personages possess for us and, also, for the sake of the more lively and comprehensive picture of the contemporary life they give us, such personages be included in the scheme of historic studies. An account of the court-life of the several Moghal and Hindu rulers of India will give a more truly historic view of the ages that have past.

Conspicuity and familiarity are some of the sensible and practical methods of leaving indelible impressions on the plastic minds of young students. These, applied in the teaching of history, are very helpful for the creation of a historic genius in them. A picture, showing the Durbar of Jahangir hung up in the class-room, will bring home to the students most emphatically and realistically the atmosphere of the Moghul court-life. It will show what the Emperor was like, what his regalia was. It will give an idea no less clear of the achievements of the nation's art and industry of that period of history, for, in any age, the best attainments of the nation's art will be brought together in the king's court and palace. While once studying the picture of the Durbar of Jahangir given in one of the issues of the Journal of Indian Art and Industry it was observed that the Moghul Emperor was seated not on a Simbasanam usually associated in the Hindu mind with a king in court, but was seated on a dais leaning against a cylindrical pillow set horizontally behind him. It was also observed that all except the Emperor kept standing. every one of them holding a long staff in both the hands in the front implying the readiness and loyalty with which they bore the rod of his rule. Studying at another time, the picture of the Durbar of Akbar Shah II, this feature was noted with greater

interest, for Sir David Ochterlony too who attended the Durbar is seen standing holding the staff like the rest of the courtiers. A further observation was made that the Moghul (Semitic) ruler did not wear a coneshaped crown (Kiritam) but had a pagri or turban on his head. Another picture which was of Nur Jahan evoked the observation that the Semitic queen wore a pagri, too. All the Durbar pictures relating to the Moghul Emperors show that the Hindus held responsible positions of rank and respect in their courts for it was observed that the beardless faces close to the Emperor's seat were Hindus. From this was drawn the legitimate conclusion that Hindus and Muhammadans enjoyed mutual trust and co-operation at this period of history. And students might draw these valuable lessons from these pictures much more easily than through lengthy accounts parrating these facts and learn more willingly, for knowledge here comes in the attractive garb of pictures which are universally loved much by children.

We have seen of what immense value and belp such pictures are in the teaching of Indian history. The best way for securing illustrations of this type is to utilise the plates reproduced in the Journal of Indian Art and Industry (published by Messre. W. Briggs & Sons, Ltd., Peckham (Hanover Street, London, S. E.). The informatory notes, given in this Journal, on the plates reproduced, are of inestimable value. We get interesting side-peeps into the inner court-life of the ancient rulers of this land and also at the persons and vicissitudes of the several English generals and statesmen that have played their part in the history of India. For example even a graduate of this University might not have known that in Akbar's Court were two great Hudu panters Daswat and Basaran who learnt the Persian style of painting from Mchammadan teachers and soon surpassed them in it. Nor is it known to many students of history that Asaf Jah of Ondh employed the two Daniells as Cont-panters who grew to be famous as painters of Indian historie personages and places

Thus it may be seen that it is hard to estimate the value of securing these and similar illustrations relating to Indian History. and utilising them in our echools They may be profitably framed and hung up in places accessible to the students and helming them to study them. The matter given in this Journal will be of considerable bein in the matter of making up an Indian History from original sources. Much time has already passed by our High Schools, in complete darkness as to the existence of this fruitful source of information and the hest stamples and nursery of historic genius. Now at least ther may set about utilising this wonderful record of the ancient and modern Indian art and history which gives a true and complete

C R KRISHNAMACHARI

THE EDUCATIONAL POLICY OF THE GOVERNMENT OF INDIA.

picture of the past of this land

ON the 11th March 1904, Lord Corron who was then Governor General, published a lengthy Resolution retrieving the state, and prospects of education at the time. The History of Education in India up to 1854 when the Ower of Directors issued their when the Ower of Directors issued their memorable De-patch was consortly retrieved and careful stock taken of the results of the educational policy of the State for fifty years since them. Some of the more important recommendations of the Montain Commission of the Mo

of 1882 83 were also reviewed as e. o the systematic encouragement of private effort by liberal grants in aid, the gradual devolution of Secondary and Collegiate education apon private enterprise, the extension of Primary education among the masses as one of the most important duties of the State While acting on the recommendation of the Commission, Government retained general control over all public educational institutions and continued to maintain alimited number of Arts and Professional Colleges in the Presidency town and at important centres. In spite of the vast progress made as regards increase in educational institutions and scholars under instruction, and in spite of advance in various directions, the whole machinery required overbauling as examinations and the preparation for examinations dominated the whole system of education A Commission was appointed to enquire into the working of the Universities with the result that the Universities Act of 1904 was passed and other educational reforms followed The Government of India have given and continue to give what financial aid is possible to enable colleges and schools to make the necessary improvements under the altered conditions, in the teaching staff, in the matter of buildings, hostel accommodation, educational appliances and in the equipment of laboratories

It is now bine years since reforms on all fours began to be introduced into Elementary and Secondary Schools and site all Arts and Professional Culleges throughout the Eupire The Bea Intrino of the Government of India on the educational policy of the State published in Delhi on the 21st February reviews at great length the advance made, the improvements effected in all departments of edinational activity and draws attention to some

of the more complex problems that remain yet to be solved. The statesman-like pronouncement fitly opens with a quotation from the speech made by His Most Gracious Majesty the King-Emperor in reply to the address of the Calcutta University in January 1912 and which evoked great enthusiasm at the time and remains enshrined in the memory of the people of a promise of great things to follow. The whole document breathes the spirit of sympathy and deep solicitude for the genuine betterment of educational facilities and agencies. No one who reads it through carefully will fail to be impressed with the magnitude and many-sidedness of the educational problem of India, and the praiseworthy efforts made to cope with the situation.

It is refreshing to note that the Government of India place "the formation of character of the scholars and the undergraduates under tuition" in the forefront of their educational policy and, while bound to maintain strict neutrality in matters of religion, they regard the question of moral and religious instruction as "unquestionably the most important educational problem of the time." The rapid increase in the number of hostels and resident male students is noted with satisfaction and the Government of India expresses the hope that educational buildings of the future will be "distinguished as the most modern and commodious buildings in the locality." The paramount claims of bygione in all its bearings on educational work and method is to receive greater attention, the courses of instruction, elementary, secondary and collegiate will, as far as possible, " be diverted to more practical ends" and provision made for higher studies and research work so that Indian students may

not have to go abroad for such studies. Considerable space is devoted to the subject of primary education and the education of girls. For financial and administrative reasons the Government of India cannot see their way to make primary education compulsory and free. They however desire "the widest possible extension of primary education" and Local Governments have been asked to make provision for free elementary education amongst the poorer and backward classes of the population. In the matter of female education which has rapidly advanced during the last decade, in spite of social customs which present peculiar difficulties, facilities will continue to be given towards further improvements by concession as regards fees and grant of scholarships.

Secondary English education is next discussed at some length as it is "the basis of all professional or industrial training in India." Following the policy laid down in the Despatch of 1854 and the recommendations of the Education Commission the Government of India hold out every encouragement to schools efficiently managed and maintained by private agencies. Acknowledgment is made in the Resolution of "admirable schools" maintained by Missionary Societies and other bodies. introduction of the School Leaving Certificate scheme is regarded as a reform in the right direction and the Madras Presidency commended for progress in this direction. Next to the improvement of the payand the prospects of the teacher the Government of India regard this as the most important reform required in Secondary education. As regards collegiate education the Resolution speaks of the good work accomplished in the past and of the beneficial results that have followed ance the Universities Act of 1001 came into force With the improvemonts contemplated the Government of 1nd a hope that "a great impetus will be
given to higher studies throughout 1 india and
that Indian students of the fature will be
better c jusped for the battle of his than
the students of the present generation." A
teaching and rendential University will be
founded at Dacca and the Government of
India are prepared to sucction under certain
conditions similar Universities at Aligarh and
Beharres." The establishment of Universities
at such places as Hangoon, I atina and Nagpours also contemplated

The space at my disposal will not suffice were I to make any reference to the various other departments or branches of learning the State holds steelf responsible for, such as, Technical education, Commercial education. Agricultural education, Forestry education, Veterinary education, Medical education, Legal education, Chicle' Colleges, Griental studes. Schools of Art. Museums and the education of Muhammadans and that of the Domiciled community I very one of these is carefully reviewed and up-to-date improvements suggested. But all the reforms suggested and the improvements contemplated cannot be achieved unless provision is made for securing for all schools and colleges an increasing number of teachers trained on modern pedagogic methods This the Government at India recognise as a matter of great urgency and have desired local Goveruments to provide for the pressing need in view also of the rapid extension of primary education This need I may add. is still further accentuated by the absorption in recent years into Government service of a large number of trained teachers employed in aided schools and colleges.

To all engaged and interested in the education of the land the Bosolution brings hope and encouragement for the laters. To the rank and file of the Teaching profession the most gratifying and heartening part of the Resolution is the boon they have long looked for and the Government of India say that "they attach the greatest importance to the provision for the old age of teachers either by pension or provident fand" To the Managers of well conducted and efficient schools and colleges who have strougled hard to make code meet the promise is given of "Special Assistance" to enable them to make the improvements called for and the grants-in aid will be on a more liberal scale and under a more clastic system

The whole Resolution is replete with valuable observations and far-splited siggestions for the clueston, in the truest sense of the word, of the rising generation and every one of its 62 paragraphs throbs with genuine sympathy for the Limpire and its people, to guide whose destinies at this momentous period in their history Providence has given them Lord Hardings for their Vicercy and Governor-General, a statesman so wise and broad minded as he is large-hearted and magnanimous. Long may be live!

J P. COTELINGAN

ELEMENTARY EDUCATION POLICY OF MADRAS GOVERNMENT.

An important feature of the lindget of the forerment of Madras for the next per iss very large advance of expenditure under laducation including the improvement and expansion of elementary education. The greater portion of this expenditure is non recurring and is due to the Government of Iodia making large grants out of their surpluses and thereby materially supplementing such amounts as the Provincial Governments themselves could spare. In view of the intrinsic importance of the subject of elementary education, the heavy additional recurring liabilities Government are assuming on account of it and the general interest taken in the development of Elementary Education, the following remarks by Sir Harold Stuart as to the Policy of the Government in this matter are contained in the Revised Financial Statement presented to the Legislative Council:-

"The goal we have set before ourselves is the extension of elementary education to the entire school-going population. The attainment of this ideal is, of course, beyond the resources of our provincial settlement, and the Government of India have recognised that the bulk of the funds for the financing of the new forward movement must come from Imperial sources. Anxious, however, to supplement Imperial aid as largely as we could from our existing provincial resources, we have closely scrutinized the normal development of our ordinary revenues and expenditure, and we find that by careful economy and without starving other services we can in present circumstances set aside a sum of two lakes each year in arithmetical progression from our provincial funda proper to assist in the financing of this great undertaking. In the current year we have provided this amount for additional recurring liabilities and in the hudget for the coming year we have added a further two lakbs But as I have said before, the bulk of the money has to be found by the Government of India and the rate of future expansion must depend directly on the amount they can give us for the purpose. In the current year the portion of the recurring expenditure which they have supplied is 6 65 lakes and for the next year they have given us an additional recurring subsidy of 6 80 lakes the greater part of which will doubtless be for this purpose, though at present details are not forthcoming. The prospects of future Imperial increments of subsidy

are not so certain as we could wish, as the Government of India refrain from making a definite pronouncement as to future instalments. We can only hope that the Government of India will find themselves in a position to make regular recurring additional grants. I must confess that I could wish the position were less indefinite.

"I shall now say something about the lines on which we are incurring additional outlay on the improvement and extension of elementary education. The policy being pursued is to increase the supply of teachers by the offer of larger salaries and by increased facilities for training to secure the improvement of existing schools and to open new sch ols in both urban and sural areas. While it is exential to go on opening as many new schools as possible in places where no school exists, we find that it is very desirable to place on a more permanent footing a number of the ephemeral teacher-manager schools, many of which are at present almost useless and are established one year and shut the next. We find a widespread desire throughout the Presidency on the part of both teachers and parents that these schools should be taken under Board management.

"With regard to the opening of new school mans are being prepared showing for each talue the area supplied by each existing school, and lists are under preparation of villages where schools should he opened as soon as possible. It is found that more rapid progress can be made by extending gradually outwards from existing schools rather than locating new schools in distant centres where the advantages of education are not yet fully appreciated. Every school newly opened under Board management is ordinarily provided in the first instance with one teacher and others are added as necessity arises and as funds permit, the number and scale of salaries following the recommendation of the Educational Rules. It is expected that during the current year about 1,700 new schools will have been opened by Local Boards and over 100 by Municipalities. The corresponding figures for 1911-1912 were 696 and 19.

"The inspecting staff has also been increased by the appointment of 43 additional Sub Assistant Inspectors as a temporary measure of rehef

The present policy with regard to the education of girls is to open schools for girls in as many places as possible where the population exceeds 5000 in smaller places the so called boys 'school areas a rule, mixed schools and every new boys' school opened, proutles some girls with education in their early years

"To ensure that the policy of improvement and organison shall be carried out to the best adran tags we have relieved Sir Alfred Bourne of his rootine duties by placing Mr. Stone on special duty in the Office of the D rector of Public Instruction to carry on whatever part of the Director's work can be made over to bim?"

NATURE STUDY

THE study of any subject could be effected in two ways. The first is the method of learning it from what others have said or written about it The second is the method of acquiring knowledge about it mainly by one's own efforts. Of these the former seems to be the more convenient one as the subject 18 more easily understood though the information obtained is of a second hand nature If knowledge be valued for its own sake it does not so much matter how we obtain it provided its utility is apparent. As the mere storing of the memory with a number of disjointed facts does not in itself comprise the development of one's faculties at as desirable to consider while acquiring knowledge about a subject, the method of doing it also Thus viewed, as every one of our actions is made perfect by regular and systematic practice, that method which employs our faculties most will be found to be the best fitted for developing our mind to the fullest possible extent

Natre stady, when conducted on right lines, effers wide scope for the realisation of the aim referred to above. Every one of our scores has to be brought into play in the study of nature, Taking any object in nature, for instance a bird, we could first observe its form, then handle it and draw a picture representing its shape, hear its peculiar melody and exercise our reasoning faculty as regards the adaptation of its structure to its habits. Whatever be the object, knowledge gained by its observation and handling cannot but be effective in apposling to our mind and making a deep and indelible mark therein

It would be well for us to consider here what Nature Study means It is not and cannot be a subject taught in the class room as is commonly done at present. It is not a muxture of Physics, Chemistry, Physsology, Botany, Zoology, Hygiene and all put together Nor is it a method of obtaining knowledge by elaborate scientific research or the like Though the study of nature differs in different parts of the land the method is all the same The only requisite in a student of nature is to wander about freely in the open air with his eyes open. He must be able to study every object that he sees from all points of view. He must be able to compare one object with another and note the contrast between them His knowledge of the object will increase in proportion to the attention that is paid to it. Every minute of observation will discover new features in the object more interesting and attractive than before "An eminent botanist was once asked the question how many plants he know intimately. He answered with truthfulness that he did not know the full life history of any one plant, for the particular flower he happened to be studying was so wonderful and its biography so absorbing that the study of that one individual drove the knowledge nossessed of all others out of his head."

Among the objects that we commonly find in nature there are a few that we love and cherish and many that we disregard and condemn. The All-wise Creator gave life and being to every object in nature with a set purpose. Before characterising an object as useless it would be well for us to consider what place it occupies and what use it serves in the economy of nature. But for them human life would be intolerable. They are the mitigators of life's misery. They teach us good and noble virtues. They train us in patience and perseverance. The beauties of creation fill our hearts with feelings of awe and wonder and from them we learn the Grace and Majesty of the Supreme Being.

P. RANGANATHAN.

IN MEMORIAM.

To J. M. CHAIG, Esq., M.A., B.D.

To him no more the sun and moon can shire, Our kindly earth its wonders great display. No more—the sun in russet up his way, The altery orb to paleness thin decline, The stars, of brightness rell, in sorrow pine—This many a chatening rise of early dawn No more shall kindle him, for he is gone! His restore does with dust to date combine There lies he low where all at last must go. He held no near his heart in bonds of lore Who lived but yesterslay, now is no more; How close to us is De that is above! So good a man must savely be flowly friend, Rejoice, not mourn, at him whom angels tend.

EDUCATION IN THE MAGAZINES. (INDIAN.)

Some Educational Ideals and Methods.

In the course of his address at the meeting of
the Madras Christian College Associated Societies,
Mr. S. Srinivasa Iyengar spoke as follows:

We have gained nucle by the present system of education. We have the residential system and I hear that your College has already five boatels and is lakely to have a sixth. Corporate life in an outstanding feature of the new system from which I capted much. Another davance is that increasing attention is paid to specialization. The system is not however without defects. I find more and more that tuition is imparted in Colleges by mean of sectures by professors, rather than by reading; the student is undes to listen to becures in classes of the control of

There has been a cry in various quarters that the newer race of students is not as religious and as reverential towards their superiors as the older generation of students. But I have certainly come to the conclusion that the newer race of students is much better than the race of students to which I have the honour to belong. There are some corrigible mental defects in the Bindu intellects which ought to be taken notice of earlier, so that the next generation might be trained in the proper way. The Hinda intellect versattle, scute, subtle. refined if they willed, is lacking in all the qualities of fairness, energy, accuracy, etc., which make for originality, the habit of looking below the surface of things in place of the babit of taking things for granted. To remedy this we should make some scientific training as part of our compulsory system from the very earliest class,

In the early days one feature of the Hinds calcustional system was the Antomas system. But it had limitations; firelly, it was confined to a particular classe, nosmely, to Brahmans; secondly the Ashramas were isolated, an interchange of ideas was impossible; thirdly, they made every branch of Lowelings to Egypton, part of a revealed religious or the probability, and the second religious or the probability of the probability of the probability.

For our progress we should go to Western methods of research. There is no use of bacasting of the glorious past. We should constantly try to sequire some branch of selections, for it is only in that way that we could secure habits of energy, method and secures. We should make up method and secures. We should make up that the security we have a secure of our deals with the Western ideals and should not our deals with the Western ideals and the security of the

The Vernaculars in Schools

Indian Education for March contains an article on this subject by Mr P C Banerji The following extract will be interesting especially now when the subject is ergaging the attention of all educationsits in this Presidency —

Much more stress needs be paid to the teach ing of Vernaculars in our schools, than is at present done. One is almost tempted to say that the vernaculars are neglected in the school, though it the stody of vernaculars is properly conducted, it would afford no less mental training than the teaching of English, and would also help the study of English. Moreover a study of the vernacular is by itself important, and not much less metal than the data of English.

- 1 Is it not true that our boys should first learn to write and express their thoughts in the vernacular correctly and lucidly?
- 2 Should not the vernacular be the first means to give them correct ideas about general things?

Both the above questions require an affirmative answer, but in practice we know that the teach ing of the verencialsr is left over to some antiquated Pandits or Moolivies, many of whom care more for flord style than for thought and expression, and what happens is that composition in the vernacular is something unheard of except rately

To look for arrangement or logical acquence is in the versacular composition of even a Matriculation candidate, would be to search for pearls in a pond, Indeed it may sound diagrandful but it has to be still that some Matriculates are mable to write an application in the versacular, say in Urdi or Bindi, though they have been studying Urdi or Bindi, though they have been studying Urdi or Bindi to the school.

As for the general information—scientific, historical, biographical and geographical—to be gained through vernacular books, it may be surprising, but it is true, that the school library

contains not one book in Urde, Huda, &c., for boys to read, though it cannot be said that there are no saitable books for boys in these languages. What is more putable is that it cannot be said that thereaders in Urd., Huda, &c., provided for the boys are suitable in siyle and matter for boys, and provide that amount of reading and information which the boys require

What should we say of a school boy who does not know anything about a thermometer, a baro meter or a balloon or about malaria or cholers? Should not thus information find place in the vernacular books?

For the style and subject matter chosen in the vernacular books prescribed for our boys what can we say when they allow-say in the Urda Martriculation course of the United Provinceshighly exaggerated and hyperbolic style, and choose sentimental poetry and love poems for the reading of boys and girls. I shall not speak of the teachers whose task is to expound these love matters, but only ask of what usefulness these far-fetched fancies and exaggerated notions of the old poets will be to boys It may be that Urdu is rich in love poems and hyperbole may be the favourite device of some of its writers, but there is no excuse for these when better things are available, which should be set as examples to boys

Education for Chiefs.

The following is a portion of H. B the Viceroy's speech at the Chief e Conference held at Delhi on the 3rd instant —

I have no wish to fetter, in any way the action which you may consider it desirable to take in the education of your sous, but I cannot refrain from expressing the opinion that no scheme for higher education, which not friends with a strict coasi deration for the after career of the students and the openings presenting themselves to them, can ultimately prove accessful This is no narrow.

School Education Some Reflections

Boys who have received the School Leaving Certificate are dec dedly ablar it an the Matri culates as far as it er general knowledge is concarned, and in my opinion general knowledge is the only true test of a man a shirty

But speciality has got its own advantages and they can not lightly be passed over to be able to learn a passage intelligently and to master it thoroughly as the same preparation for the materiated age and applaining of other parages of an equal or even greater difficulty

But as the tendency of the University is towards encouraging the exercise of the intellect rather than leading the memory with faced het text book it is at once wise and advantageous to impart to the students such general advantion as may enable them to express their ideas logically and planily and with a certain degree of appropriate effectiveness and emphasis. Now we have to see how this can successfully be achieved and we cannot do better here than put down the following seggestions

- (1) Boys up to class V should be required to express their ideas in their vernacular on such familiar objects as a black board a chair, a dog, a banyan tree, an Indian baraar, a tiger and a railway station
- (4) Teachers should address their stodests and receive replies from them in English from Class VI inputate. The students of Class VI, VII and VIII should be required to write short essays on such famil ar subjects as have been ment once above. Buy a should be required to rehearse the dallogues given in their book, and to so it the clust characters of the important dramatic chapters of the test book. They should be asked to reproduce in their own words and in their own defective bot simple English a lesson taught by the reachers.
- (3) Easy passages from the text book and other books of equal difficulty should be distated

to them every alternate day and mistakes should be carefully corrected and pointed out to them This system of teaching passages from books should extend to Classes IX and X as well

- (4) The students of Classes IX and X should be required to make synopsis of the important chapters of their text-books as well as their histories.
- (5) Cooveration should be held in class between the students and the class teachers at least once a week. These cooverations should be such as are calculated to both solarsy the metal hormon of the students and its supply them with a fairly large stock of useful words and brisses.
- (6) A debating senety should be formed in which lectures should be delivered and discussions held on ordinary but assist logues. A magaz ne should also be started in every achool in which contributions from standards should be published after necessary corrections and improvements have been made by the class teacher or the editor.
- (7) Great stress should be laid on their hand writing and the method of answering questions Elliptical answers should never be accepted
- (6) Above all thinge great head should be paid to the improvement of their powers of speech and composition, for these latter two are in my opinion the veritable terminae ad quest of a University education—An Educational

WANTED .—Annotated editions of English authors or Notes only published by the Old Journal of Education Office, Madras. Also, back annual volumes of the Journal. Write, stating price and particulars to the Librarian, Native General Library, Bombay.

(FOREIGN.)

Pupil and Teacher.

"Paidocentricism" is an ugly bybrid introduced by Dr. J. Stanley Hall, the well-known American, writer on Education, and explained by Professor 'Adams in the Educational News of January Slat. It means that view of education that places the pupil in the forefront in all educational theory and practice. Its neglect is found where the teacher rejoices in talking and teaching without sufficiently considering if the child is able to listen and learn. The teacher's aim should be to secure that every bit of teaching produces its appropriate bit of learning.

"It is remarkable," says Professor Adams, "how seldom teachers give the pupils any help regarding how to set about learning. Quite commonly the only help given is the bald instruction For to morrow prepare the disjunctive pronoun, or the theory of indices, or the Galf-Stream. A boy who had never drawn a map was told by his master: 'Draw a map of Rogland for next Wednesday.' The boy worked according to his lights. These showed him that the map in his atlas was divided up into little rectangles. He took these to be the units of conatruction, and worked up his Map rectaugh by rectangle, producing a drawing that had some at least of the qualities of a patchwork quilt. The teacher complained with some vehemence that he could not understand how the boy could be so stupid, and by this complaint proclaimed his own professional incompetence. It is his business to understand such things,"

The Efficient Teacher.

This is an extract from the address of Mr. Rhodes as President of the Section of English Teachers, State Teachers' Association, Beffalo, who said:

"The efficient teacher has not arrived. Many seem to thick that anybody can teach English

and 'anybody' too often gets the opportunity. The teacher of Eoglish must not only have a personality, but he must be a real person and have the right kind of a personality. He must be a prophet, a seer, an inspirer of his pupils. No man can drive or beat or coar or drill or nag the love of literature into the heart of an unwilling papil.

"The efficient teacher must be withal a same and wholesome optimist, which implies being an equally same and wholesome idealist, for to be an inspirer, the teacher's greatest privilege, one must possess these qualities.

"It is not enough to get our pupils to pass and' so leave us for the world or for college. The only adequate results of our work are an appreciation of literature and a mastery of the language."

The Teaching of Literature.

Sir Arthur Quiller-Couch, in giving his inaugaral lecture as King Edward VII Professor of English Literature in the University of Cambridge, admitted that there lurked in the public mind a doubt whether English literature could be taught in the way that other school subjects are taught. He said that the study of Eoglish literature could be promoted in young minds by an eider one, and that their zeal could be promoted, their taste directed, and their vision quickened. If we may summarize we may say that Sir Arthur arged the necessity of studying the masterpieces with minds intent on finding out just what the author meant, and that commentators abould not be allowed to obscure the direct vision of the author. He made some severe allusions to the "endless stream of little school books, all upside down and wrong from beginning to end." The difficulty is, of course, well known and always present. The teacher does not feel that he is doing his work unless he is explaining all the time, and the pupils base no chance of stadying the author.

The Comma

Maurice Winter Mos, High School, Appleton, Wis, writer in The English Journal:

The proper use of panctuation, the comma in particular, is one of the first things to be taught in the high school course, for if the pupil does not learn at at this stage he never learns at thoroughly, and his work is always characterized by a lack of readability and clearness, or by actual ambiguity. But the common method of teaching the comma is almost sure to produce in the pupil's mind the very confusion that ought to be cleared up. The standard rhetorics all contain a list of comma rules, varying from ten to twenty five, all thrown together without apparent order or reason, and expressed in the "thou shalt' form that gives the impression of an immutable decalogue delivered from some pedagorical Sina; 'Take the rules for the comma for the next lesson," says the teacher, and Johnnie laps up the rules, with an example for each, which he may or may not understand. But in his composition that week he leaves a noun in apposition uncomma-sd with blissful unconcern. and when it returns to him blue-penciled, he guesses that a comma or two is needed and meerts them-but goes on leaving his nouns in apposition to roam at large. Now let us see if we cannot teach Johnnie just what kind of an implement this little broom is, and how to hold it properly and make the dirt fly with it.

The first step is to be sers that the pupil coming up from the gradek zones theroughly—as he coupli—the banes and uses of the rances parts of speach and of the various members of the accisors. For instance, he must know a partungual modifier, know at once whether it is restrictive or merily parenthetical, he must know clearly the difference between a relative clears that restricts a non on prosone in the sentence and one merally thrown in for explanation; how must recognize an adversall phrase or quare of the property of the sentence and one merally thrown in for explanation; how must recognize an adversall phrase or quare of anything the sentence of the sentenc

its regular order he will set it off as naturally as he writes "a a t" Without this knowledge he is merely learning sets of words without knowing just what they mean

Next, he must come to see jest what it is that the comma does no the sentence. A typical supponctuated paragraph on the board will make him realize how coloriess and hard to read our language would be without commas, how they are needed to stand beticess words or phrases to keep them from running together in a confused mass, and to partition of certain parts of the sentence to give them emphasis or show their relation to the rest of the sentence.

Modern Language Teaching.

How the fellest, completest, and most liberal education may be given by means of Modera Lauguages is the subject of a paper by Mr. Stanley Leathers in a recent issue of Modera Lauguages is the charge A coordination of lauguage, iterature, and history is what he sums at— 'laumages is the key to literature, liberature illuminates biselory, history explains liberalors,'—and occurse geography is necessary to the comprehension of both history and literature Too often, however, history is treated as a separate subject.

What can examiners do in this matter, Mr Leather aske: "Should our tests for boys of eachteen or nancteen stall be trate in language alone, in translation, composition, and conversation, or can we be more ambitious?" The literatore paper to be answered by text book knowledge finds up favour. "The test which I should like to impose would be a general paper on the History of France say from Henry IV to Lones-Philippe, and another on the history of Germany from Frederick the Great to Bismarck These should not be papers which could be answered from a text-book of history or a text book of literature or both together, but papers intended to test the first-hand knowledge and intelligent study of the literary masterpieces of the period.

A Glory in Browning.

Mr. Norman Gale writes in "Great Thoughts:"

"There is no poet fit to be compared with Browning who of all poets is the man most able to purify while stimulating the heart that is burdened by an overwhelming passion. Be it constantly remembered, Browning is the most exacting of immortal consolers. He sullied no page, and he can tolerate no sullied heart. If be is to walk with us, converse with us, allow us to lean upon his experience, he demands of us to show him our flame, to prove it clean, to convince him that it is fed by no transitory fuel. As soon as he is assured of our right to be in his company, with what bammer-strokes of valiance he beats upon our breasts! Look where we may in the records of literature, we shall find no other example of vivid largeness worthy to be compared with that given to the world by Robert Browning not even in the highest expression of the Golden Age of the Greek mind? No. Not even in the highest expression of the Golden Age of the Roman mind? No. Not even in Shakespeare? No. Since the human brain bas a superlative genius for variation, it would be daring of me to assume that in days yet to be born there will not be heard a voice even more masculine and awakening than the voice of the poet in whose breast the tides of feeling, with salt enough in them to wake them saluting, ran in fine abundance towards the coast of love; Bright-eyed, bright-hearted, brightsouled, this poet had no time to spend on the weakling. For his disciples he needed men with sinews atrong for loyal resistance, not men in whom flabbiness appears while as yet they are only half-way to the second obstacle. If he had been valorous in difficulties only because he was aware that in the end victory must reward his efforts, then he would have been less the heroic spirit by whose example we can be helped across wilderness of almost indescribable emotion. he taught us the desert as well as the casis, and he charged lovers to be illustrious in defeat. He sang upright carriage for the vanquished ; be sang the unshaken lip; he sang the heart valuant enough to lose all and yet remain unroused. To him the moment of downfall was the moment for struggling to rise."

Geography in the Class-room.

Mr. E. C. Hodgkison, n.a., Assistant Master at Crewe County School, contributes an interesting article on Geography Teaching to the "Educational Review." He says:—

Much of the indefiniteness that has characterised the teaching of geography seems to have resulted from the isot that so many have laken up the subject as an affect hought, or regarded it amends accessory to more inportant subject to the accessory to more inportant subject to the accessory to more inportant subject to the accessory to the control of the control of

This will be readily acknowledged if the aims of the study be considered under the following beads:--

(1) The earth as the abode of man, including the physical conditions that have determined the precent state of development in various countries, and a general outline of the regions of the earth.

(2) The representation of the whole or of parts of the earth's surface.

(3) The earth as one of the heavenly bodies.

The teacher is fitted for the work outlined

above by the mastery of such books as Havley and Gregory's Physiprophys, Konveledge of the most of the control of the control

For the proper treatment of other countries wide course of reading is necessary, all kinds of books of treat should be recessary all as books for the resident of the treatment of the treatment

THE UNIVERSITIES

MADRAS UNIVERSITY.

With reference to the vacancy on the Syndicate assed by the retirement of the Hon bis Mr. Justice P. R. Sandara Alyar, B.A., B.L., it is notified that the same gentleman has been duly respected by a member of the Syndicate.

Recommendations of the Syndicate

At a meeting of the Senate held in the Senate House on the 7th instant, the recommendation of the Syndicate, that certain gentlemen who but been recently appointed Ordinary Fellous of the University be assigned to the Faculties of Arts and Law, was approved

The recommendation of the Syndicate for exempting certain students for the University Examinations from the production of attendancecertificates was granted

Taking Degree in absentia

Rev E M Macphit them mored to meet the words "ow who from some unavoidable cause is unable to be present in person" in Regulation 68 after the words "at the time". Regulation 68 after the words "at the time". Regulation 68 after the words at the time" Regulation 68 area thems.—"A candidate for a degree who is not resident within the territorial limits of the University at the time or who is precluded from appear with the time or who is precluded from appear and the time of the time of the time of the gradients and may with the permanent of the gradients and my which the permanent of the admitted in discrete the time of the time of the convention in Nyvember of December".

In moving this proposition he explained the object of taking degree in absentia Sometimes a candidate might be inside the territorial limits but might not be able to come and attend the Consocation owing to illness or some other cause To meet those conditions it was necessary to alter the Regulations At the same time in order to prevent people from faucring that certain causes were unavoidable they should raise the amount from Rs 10 to Rs 25. Thus there would be a substantial money payment by persons who were taking degree in absentia. He would therefore move first that portion of the proposition which was put to the meeting and carried Mr Middle mast seconded the motion Mr S Srinivasa Atyangar moved that the clause 'or who is precluded from appearing in public " be omitted

Rev Macphail then moved that Rs 10 be altered into Rs. 25 in the same Regulation. He said that in order to avoid the possibility of a large number of people taking degree in givening

a substantial pecuviary charge should be levied. Then the privilege of taking degree in alsentia might not be abused. There was a tendency for people to say that certain causes were unavoidable, that they could not come If it was worthwhile to take degree, let them pay a good sum Rev Father Sewell seconded the motion Mr S Scinitara Aiyangar moved that Re 25 be reduced to Re 15 He said he was against the enhancement of fees altogether case the majority of the House was inclined to raise it he proposed that it should be raised only to Re 15 Mr Natesan seconded the .. mend ment Mr C P Ramaswamy Aiyar, Sir V C Desikacharry Mr. Ramanuja Chariar of Pachar yappa's College, and Mr Ramanuja Chariar of Maharajah's College, Vizianagrum, were all against the enhancement of fees The amendment was out to the meeting and lost

The substantive proposition was then before the House

Mr Justice Sandara Aiyar said that the reason that actuated the Syndicate to raise the fee was that the Syndicate had to decide whether the cause put forward by candidates was proper or He asked the gentlemen who opposed the motion, to consider whether it was an easy thing to decide whether the causes put forward by various applicants were unavoidable or not. The object was to fix a figure which would be sufficiently heavy to induce people not to make vain excuses It was the desire of the Syndicate that as many people as possible should attend the Convocation A fee of Rs 25 would not be excessive and would be a sufficient check on people who would otherwise absent themselves without good grounds. It was difficult to say He did not what exact figure they should fix see how Re 15 would be better than Rs. 25.

Dr Bourne pointed out that if a candidate was unable to come and take his degree in a certain year he could wast till the next year and there was no charge for that. And further the fee was not exactly as a fine. It was a payment for a distinct privilege and for convenience. It was usual mail Vinversaties.

The Hon Mr T V. Seshsgur Alyar sad bound not understand how the fee could be briefled consideration of the Samate deciding whether the cause stated to be unavoidable in a particular case was so or not He was of opinion that Re 10 ought to be sufficient The Hon Mr V. Strutrasa Sastry was also against the raining of this fee

The Resolution was put to the meeting and carried.

Attending the Convecation.

Mr. Macphail then moved to amend the following Regulation (68):-

Candidates for degrees must, fire clear days before the day fixed for Convocation, inform the Registrar in writing of their intention to be present. No person shall be admitted to the Courceation who has not thus sent in his name to the Registrar. Mr. W. J. Prendergast seconded the motion which was carried.

Licentiate in Medicine.

I.I.-Co.I. Giffard moved to after Regulation 252 classing to the examination for Licentiate in Medicine and Surgery by not requiring candidates who had passed in the Physical Science or Natural Science Group of Part II for the degree in the Physical Science or Natural Science Group of Part II for the degree in the Company of the Part Science of Natural Science Group of Part II for the Science of the Science of the Science of the Science of the Science assumation in which they might have already passed at the examination for the degree. The proposition was carried.

University Lectures.

Mr. Justice P. R. Sundara Alyze than mored the list of University Lectures proposed for the Academic pare 1913-18 stabelline 39 to Products for sanction used B. G. Hanomattle Stabelline 39 to Products for sanction used B. G. Hanomattle M. G. Hanomattle Stabelline 39 to Produce the Stabelline 39 to Produce 19 to to Pr

Mr. Natean mored that the matter be referred to the Syndicate for reconsideration. In giring his reasons for so asking he said: From a careful study of the sylinken laid for the National Course and of the names of the gentlemen selected tecture upon subjects on behalf of the University, he found that some of the gentlemen were teaching the identical subjects in colleges for which they were either paid by Government or by private bodies according as the Colleges were Government or private. There were certain subjects which cought to he taught by inter-oclegate lectures and

there was no payment for the same.

Mr. Ramalinga Reddi said that the Professora were giving University lectures but not fectures in a private capacity.

Mr. Natesan then pointed out some more Professors came under that category—Professor Mackintosh and Professor Crawford,

The Vice-Chancellor said that it was admitted that those lectures to some extent covered the grounds of subjects taught by some of those Professors in classes,

- Mr. Natesan said that such a state of things should not be allowed to go on and that the matter should be referred back to the Syndicate for reconsideration.
- Mr. Justice Studan Aiyse explained that the discreted the Syndicate was that the University lectures should be of a very advanced nature, and make the students at a student student student students at a student student student students as the student students about a student student student students about a student student student students about student student students about student students about students students students and students stude

Mr. Mark Honies explained that the lectures were to be delivered out of ordinary college hours and they could not be provided for in the inter-collegate course of recturer. There were extra lectures altogether outside ordinary college hours and the Professors had the right to claim remuceration for the same. If the Senate should say that they had no right to claim remuceration, he would protest against it. Her. G. Pittendrigh also pointed out that the lectures to be delivered by Mr. Crawford were extra lectures altogether.

Prof. B. Hanumantha Rao seconded the Resolution which was put to the meeting and carried.

Position occupied by Languages.

Mr. Mark Hunher then moved for adoption of the Report of the Committee of the Strands appointed on March 2, 1912, to consider at report upon the position occupied by largest other than English in the various course of study and to frame and present to the Service and proposal for siterations in the Regulations that may be considered desirable in order to ensure more attention being paid to such largeages.

The following were the Resolutions adopted by the Committee which the Syndicate placed before the Senate:—

c. fore the herater— (1) That it is unnecessary and undesirable to recast the existing general scheme of courses and examinations so as to render the further study of Indian languages compulsory for all Intermediate or B A students, or for any group of suca students

(2) That no real improvement in language studies is likely to result from such modification of the general scheme

(3) That it is unnecessary and undesirable to modify the existing Regulations for Part II of the Intermediate course examination

In moving the Resolution Mr Hunter made a speech in the course of which he said —

The Committee after neviting opinions from the fillisted Colleges, and after a very full discussion second by an overwhelming majority, principle, nuce as the caparity strongly hold, the study of Iodian languages world be much more likely to suffer from than benefit such extension.

"This conclusion the Committee invites the Senate to adopt If it be adopted the Committee will then be free to consider how language studies may best be promoted on the optional principles and though it would be foolish to minimise the difficulty of the problem we do not doubt that methods, really effectual, may be discovered and applied If, however, the Senate rejects the Committee e Report, the Senate will then be confronted with another quest on-a question which scarcely came before the Comunitee at all If the Senate concludes that the language course will banefit by the adoption of Mr Seshagiri Aiyai's proposals, we will then have to consider whether the gain to languages will be sufficient to compensate the loss which other subjects individually-which the course taken as a whole-may sostain, and this, I would impress upon the Senate, is a very serious matter You cannot simply thrust an additional compul sory subject into the courses

"Lifuabibidity, it is necessary for the University to encourage the study of Indian languages—notind ung the versuculars—in another way and with a view to other cods. We have to secourage the study of the Iteratorse on rational principles and the study of the Increases on critical lines. This is Committee to the Committee of th

and nearly a seventh of the total number taking the course. Some of those students no doubt are studing European languages, classical or modern but in the great majority of cases the languages studied are Indian languages

"These figures, as the Committee thinks are, for a beginning distinctly, satisfactory. Already as appreciable aumber of students have elected to study Indian languages from personal taste and preferences, and in the Committee as (mind there is more hope for the fature of such students when 12 or 15 per cent follow them freely from personal choice than three world be if 100 per cent studed merely on compution

"On all sides, we are told, that the language courses do not attract because they are taught by Pandits whose methods of teaching are uninteresting, occurred, obsolete and bad

" In the face of the evidence, it seems to me, that the Committee would not come to the conclusion other than that arrived at, viz., that the University cannot, with any sort of justifica tion, compel all candidates for a degree to pass through courses in which the methods of study and instruction can still fairly be described as uninteresting, uncritical, obsolete and bad Moreover the system of compaisory Panditconducted courses has been abundantly triedwe have had many years of it, and it is seriously open to question, and have been abundantly found wanting We have as the final result of many years of compulsory Pundit courses, little or nothing to show There is therefore small hope that what has proved so signal a failure in the past will be productive of anything but failure in the future

'I more that the report of the Committee be adopted 'Mr G V Appa Row seconded the motion

Mr Venkataranga Row then moved that the Report be rejected as ulira cures as it was not in accordance with the terms of reference. The Report was altogether different from what the Committee was saked to report

The Vice-Chancellor ruled the motion in order and called Mr Seehagiri Aiyar to move his amendment

The Hon ble Mr Seshagiri Aiyar then mored the following amendment —

That, in Agendom No VI, the motion be amended by the addition after the word 'adopted,' of the following words —'subject to the modifications' —

(a) That, in the opinion of the Senate, it is necessary that the study of Indian languages,

should be made compulsory in the Intermediate Course

(i) That, in the opinion of the Seaste, it is further necessary that the study of Indian languages should be made compulsory in the Pass Course of the B A Degree examination.

In doing so the Hoal ble Mr Seabagin Alyaresald that the whole compulsory system with regard

to vernacular languages was not a signal failure in the past as was remarked by Mr Mark Hunter He hoped that the opinion of the Committee would not weigh with the Senate It was not a representative Committee Certain names which were not at first mentioned were subsequently They were persons who gave their opinion in a definite manner The inspiration of many people comes from the literature of the country The interests of those people were not likely to be advanced by the study of cheap literature such as novels and other books now written in modern prose He was aware that a large number of Indians had voted in favour of the Report He would ask them to reconsider the position of the vernacular literature of the country if the languages were not made compul sory It might be very well for a foreigner to acquire a sort of knowledge in the vernacular languages by the study of cheap literature children of the soil should acquire a sound know ledge of the vernaculars by the study of books of approved marit An Englishman would not ask his children to read some novels and acquire some knowledge which would enable them only to read and write with fixency and ease he not ask them to read Milton, Shakespeare and Chaucer The curriculum should not be burden some At the same time they should see that the country was not denationalised It was absolutely necessary that there should be com pulsory vernacular in the Intermediate In seconding the amendment Mr C P Rama awama Asyar referred to the numerous complaints made against the Secondary School Leaving Certificate system which it has been asserted fails adequately to must on the compulsory aspect of

In seconding the amendment Mr Ur Issue awam A styre referred to the numerous complaints made against the Secondary School Leaving Teathboard against the Secondary School Leaving Cartificate and the Secondary School Leaving Cartificate and the Secondary Secondary School Issue and Secondary to unsat on the compilatory aspects and the Cartification of the centising University courses At no stage in the University Course At no stage in the University School Secondary Secondar

country by the ordinary University graduate of the present day as noticrosa, we might well worder what he about a contract which we will word to the contract of the new system would be on the development of verscaled and the property of the government of a papeared to the Government of a papeared to the Government of a University education are to do the best for the country with the education they have received, it was imperative that they should preserve a sound knowledge of the versacclars

The Committee of the Senate was appointed in order to focus educated public opinion on this subject But the procedure adopted by them had been most unsatisfactory The Committee in formulating questions issued to affiliated colleges seemed to have committed the initial error of mietsking the effect for the cause To take one particular instance the Madras Christian College had 318 students in the Intermediate classes for the year 1911 1912 and 302 for the year 1912 1913 and of them, though a majority seem to have selected vernacular composition in preference to translation from a classical lan guage yet the figures regarding group III proved that in this the most popular sub division the vernaculars were really nowhere, only 33 students having selected any of the vernaculars The obvious explanation was that whilst vernacular composition is considered easier than the mastery of a classical language yet having regard to the collections of subjects, in group III the languages are taken up in the large majority of cases for the sample reason that History and Logic go together more easily than History or Logic and one of the languages Moreover by maisting on two languages as an essential for the B A Degree including one of the classical languages it was idle to expect that an Intermediate student would concentrate his attention on a ternacular

On the main question the second grade colleges by a large majority had declared that the compulsory study of remaculars after Matriculation is both necessary and desirable

In this state of opinion it was remarkable that the Committee should have arrived at the neutratic good-classon that it was non-cessary and undestrable to overcast the causing general scheme of courses and examination so as to render the further study of I odom languages compalisory for all I ottermidates or II.A. students

On the whole the Committee had not founded as opinions on any definite or unmistabled at and had not even proceeded consistently on the basis of agreeing with the consenses of opinion of the colleges. In the first place the Committee failed to keep promisently before its mind that it was appointed to frame and present to it a Senate proposals for attentions in the Rayalshoos might be considered der rable in order to enser more attention bring paid to removale and gaages. Such a Committee so appointed in the language of the lawyer, had no jurnadiction to pronounce its complicant benediction apon the attention system. It came into existing system It came into existing system It came into existence to remody an early that was fall and it did not fall within its purview to say that there was no oril at all.

Rev Macphail in opposing the amendment said that the study of Indian languages was already compulsory upon almost all candidates in the Intermediate course Part II (composition) of the course for the Intermediate examination was compulsory. He did not understand what was meant by Mr Seshagiri Aiyar How could one study the composition and yet did not study the language? How could a person write a language well without knowing it well? People were now learning a great deal more by vernacular composi tion than by the old Pandit methods The whole controversy arose from an attack upon vernaculars, when Government put in the Intermediate course compulsory Vernacular composition A large number of people were up in arms against it The whole attack was originally directed against verna culars It was rather late for them now to wring their hands. He had known several brilliant students taking up in the old Sanskrit system and they knew precious little of their own vernaculars The present system was doing a great deal for the He would not go and ask his child vernaculars ren to read Shakespeare or Milton They could take up any English book and read it Under the old system of compulsory vernacular languages, no student could understand one word of classical language without the Pandit coming to explain it If that was the education given by Pandits it was of no use whatever The same old thing conti nued from the lowest class to the h ghest class They should not be guided by sentiments but should face facts He was extremely sorry that English was a compulsory language in India. He would give freedom to every one to take up any language It was better that 10 or 12 persons take up an earnest study of the vernacular langu ages than a lot of persons devoted indifferent attention to the same. All they wanted was to see good vernacular literature growing up He was utterly opposed to taking the retrograde steps.

Mr Cotelingam in opposing the amendment said that composition made the study of verna culars compulsory In the majority of the schools in the Presidency, more careful attention was

being paid to vernaculars than in the years gone by Composition tested ones knowledge in a language. By the system of compulsory composition, vernacular education was bound to advance as years rolled on

Mr Justice Sundara Aiyar confessed that he as Chairman of the Committee was not altogether satisfied with conclusions of the Committee. At the same time the evidence collected by the Com mittee and the information he has been able to gather convinced him that things were moving forward fairly well Even taking up the question of vernacular for the Intermediate course he would not dislocate the arrangement that had already been made He was not present at the last meeting of the Committee He thought if he had been present, perhaps he might have suggest ed that a passage for paraphrase might be added But now after more information had been received on the subject he did not think it necessary to go further and press it just now The Committee did not say nothing more could be done at any time He agreed with the present Resolution and thought it was better for them to wait and see Ily Bourne proposed that the meeting be ad

jourd to 3 PN on the 8th instant

Sir Alfred Hourne. At the resumed meeting of the Senate on the 8th instant, Sir A G Bourne the Director of Public Instruction, wished to make a few observa tions He said that they should hear both sides of the question Whatever might be their opinion as educationists there was the opinion of the people who spike those languages. He was not at all sure if the Committee had as yet sufficiently deals with the evidence before them The answers showed there were difficulties due to want of standard lack of terms or poverty of the language difficulty of expressing Western ideas in the vernacular inability to think in the vernecular and so on mittee had before it a mass of opinion that there were difficulties in teaching vernacular composition They came to the conclusion that it was unnecessary and undestrable to modify the existing Regulations for Part 2 in the Intermediate Course. He did not know whether that meant that the words of the Regulations need not be altered That might be so or might not be It was quite clear that something should be done to improve Part 2 It might not be by altering the Regulations but by instructions to Lxammera with regard to the books to be usedinstructions such as were commonly and frequently issued by the Syndicate which would of course also have statutory power by bring embodied in the actual Regulations He would himself like to adopt the report of the Committee except one portion of it The Senate abould request the Committee to consider again in view of the evidence before it whether by so arranging the Course in Part II they could not secure a really efficient study of those languages to the extent or standard which was desirable to make compulsory on every candidate for the Intermediate Course It was quite clear that although the composition might already be doing some good, it was not regarded very seriously. If two hours a week was all the time the scholars devoted to those langu ages, he was quite prepared to say it was not enough Various amendments besides those of Mr Sesbagiri Aiyar had been put forward Those amendments were an attempt to improve Part II of the Intermediate Course. The second question was whether the vernaculars should be introduced for all candidates who passed the BA Degree. That question was not touched upon in the meeting of the previous evening He was rather in favour of introducing it in the Pass BA Course also by modifying the Regulations in a suitable way, similar to Part II of the Intermediate Course

Mr K B Ramanathan Mr K B Ramanatha Argar in supporting Mr Seshagiri Aiyar's amendment said he was not astisfied with the report of the Committee The question of the position to be occupied by the mother tongue should be satisfactorily settled. They must try to get from the Pandit all the good he could impart. They should improve him and not dispose him off in the manner the present arrange ment seemed to dispose of him. If they made it impossible for students to learn the vernscular in the early stage, any amount of interest they might create afterwards would not make up lost opportunities For composition purpose, familiarity with books was absolutely necessary He would not also decry the study of modern novels in the vernaculars The BA Honours Course should be so revised as not to make the Second Language Course a compulsory one The second language question was in an unsettled condition and so they were obliged to be unkering at this question till they could get a satisfactory state of things In the matter under discussion the European gentlemen were out of court. The man who were the shoe should say whether the shoe fitted him or not. It would not do to say that those who opposed the adoption of the report were guided by sentiment

Mr. H J. Allen

Mr Allen said that there were no text-books in vernaculars Further a lot of money (30 lakbs) had been spent by Colleges in putting the new Regulations into force before one examination was conducted under the new Regulations He asked the Scoute of it would be reasonable to revise the Regulations again Mr Azizuddın Sahib

Khan Bahadur Az zuddin Sahib in appearing the amendment, said that if vernaculars were made compulsory Mussianacs were likely to suffer In the High Schools and College there were no Mussianacs. Munshin at all Even if there were Munshis, they were most deficient. He would appeal to their Hindu brethren to induce their children to pay

more attention to the study of vernsculars. He was of opinion that the Committee was not attempting to stifle the progress of vernaculars.

Mr V S Smarasa Sastri

The Hon Mr V S Srinivasa Sastri in supporting the amendment quoted figures to show how many students were taking up Indian vernacular languages in the Intermediate and BA. Courses since the introduction of the new Regulations in the second grade and first grade Colleges and said that Sanskrit seemed to have gained very much. Under the present system they did not see a very large number of people taking to the study of vernacular languages with the enthusiasm which they would desire to see There were only 8 Colleges in the Presidency that provided for Branch VI of the B A Pass Course No College in Madras made provision for Branch VI-neither the Presidency College nor the Christian College The way to better the condition of vernacular languages was not by doing away with the Pandits altogether Unless one studied the classical books one would not be able to express himself with effect, power and beauty. It was his desire and the desire of others to put the second language in the place it once occupied before the new Regulations came It might be that it was a matter of sentiment, but in that respect they could not be asked to forego their sentiment.

Mr. C. Ramalinga Reddi.

Mr C Ramalinga Redds in opposing the amendment said that the present system was much better calculated to promote the interests of vernaculars The curriculum had very little to do with the number of students taking up a vernacular There were more students taking Telugu The compulsory system of vernacolars was not popular The pregent system which encouraged Sanskrit learning could not be said to denationalise the country The Telogu people were keen on social reform and wanted to popularise new ideas.

Mr A. C Pranatharthihara Aiyar

Mr A C. Pranatharthibara Aiyar in supporting the amendment, said that under the present system students had very few chances to study vernaculars It was one of the five optional subjects in the third group of the Intermediate Course they threw overboard all the vernaclar literature, were they to want for a completely new vernacular hierature? The question was how to improve the present literature If vernacular composition was compulsory, test books should be introduced for compulsory study Otherwise the whole curriculum was bound to be pulled down one day or other On the cultivation of the knowledge of the mothertongue, the good of a country depended

Mr Yakub Hussain.

Mr Yakob Hussain said that the Committee left the question of classical languages severely alone. The study of classical languages was very important in the study of modern languages. The vernaculars could never develop if the scholars were

TECHNICAL EDUCATION.

Typewriter Topics.

Feature at the machine —A high seals is neces say and the table on wheth the machine is placed should be of such a height that when the operator sits neat tot, it, is elbows are about on a level with the key board Have the arm incheed slightly downward from the about Ton hands or the arms should not rest on the table worm working on the key board Hold them just over working on the key board fold them just over ready to hight upon the keys when frequired Sin close to the machine

The Oliver Ribbour—The Ribbou moves in a lengthwise direction from spool to spool and when one and is schutzed and a singlify heavy pressure will be required you can make it act in the reverse direction by simply moving a bandle and of the kep board. Though only one coloured ribbou is provided on the machine there is no limit to the colours that can be produced. For, any colours can be got by simply placing that coloured carbon past below the ribbon. For the action of the coloured carbon past below the ribbon. For the same produced the coloured carbon past below the ribbon. For the same upplied within a coloured carbon machine by the manufacturers, if required in the coloured carbon that the machine by the manufacturers, if required in the coloured carbon cards."

CALCUITA COMMERCIAL EXAMINATION

Examinations in Shortband and Typewriting, in connection with the Bengal Government Commercial Course, Discoa Contre will be held in Dacca next month Particulars can be obtained from Mr F B Biss, the Secretary of the Examination Board Dacca Centre

The Victoria Tecenical Institute, Manual The annual meeting of the Victoria Technical Institute was held at the Institute Buildings where there was a large and distinguished gather may present His Excellency Lord Pentland leng in the chair. The proceedings of the meeting began with the Secretary reading the report of the Institute for the year 1912. So It Hardól Sturr moved the adoption of the report which was seconded by Alf Justice Schartz lyer. His Excellency in controlled by the meeting made as in another page. So John Astinoso proposed, vote of thanks to His Excellency and the meeting then terranuched vote of thanks to His Excellency and the meeting

THE PITMAN CERTENARY—CELEBRATION AT

The centenary of the birth of Sir Isaac Pitman, inventor of one of the earliest alphabatic system

of aborthand which goes by his name, was calcipated at the Y M C A. Hall, Chowringbee, under the presidency of Sir Lawrence Jeshitz, Ched Justice of Bangal The function was largely stiended by employers of aborthand labors, as well as aborthand writers in active work in various spheres of life. They included Laylesters Mr Justice Holmwood 'Mr Justice Cox, the Hon bie Maharaja of Nashiper, Mr Wigley and Mr A W Watson, ICS The shorthand learners of the city mustered atrong on the occasion.

MR ALFRED CHATTERTON IN MISORE

Mr Alfred Chatterton, the head of the Mysors Department of Industries, has been exerting to develop industrial activity there He is designated 'Director of Industries and Commerce,' and his duties are stated to comprise.

(I) assisting private individuals by advice and leans or in any other manner considered necessary to enable them to start industries and new busi ness concerns, (2) furnishing, as far as possible free of cost, estimates, schemes, prospectuses, articles of association, etc. to private capitalists and also to bodies of persons, anxions to start lout-stock industrial or trade concerns, (3) ex perimental installations in industries and mannfactures at the cost of either Government or private individuals, (4) collecting and maintain ing correct statistics of industries and commerce for the whole State as well as for important trade centres, (5) industrial survey, formation of a central industrial depot, a museum of industrial machinery and commercial products, and an information bureau, and (6) study of markets for Mysore products

THE ASSOCIATION OF BOOK RESPIRG TRACHES,

The examination in Book keeping (Elementary, Intermediate and Advanced Grades) of the Assentium of Book Leeping Tacchers, London, will be hold as Trochnopoly, in the first week will be hold as Trochnopoly, in the first week of Myper! Candidates desiring to appear for the munitions should get detailed particular at the examinations, applying with § anna slaups to Mr TO Ranganatha Row, FDI, FGT Honorary Local Secretary, English Examination Boards, Strangam PO (Trochnopoly)

TECHNICAL EDUCATION AND EVENING SCHOOLS, LONDON

The report of the Education Committee of the London County Council on eight years of tech nical education and continuation schools—mainly evening work-compiled by Mr B Blair the Education officer, was assued last month It is divided into two parts, the one dealing with history and administration and the other with subjects of instruction A chapter in the report, which is bound to receive considerable attention, is that which deals with evening schools, especially when the remarks made by Mr S E Bray, a District Inspector, in his memorandum, are read with the description of the German system given in Appendix H. Mr Bray says that at present the greatest need of the evening schools is stability of attendance-a subject which must claim attention equally in connection with the extension of elementary education in India among the agricultural and artisan classes In the first few weeks of the session everything goes fairly happily in this respect, but shortly after this the falling off in the attendance begins and "assumes disquieting proportions as Christmas approaches" In no school, taking the sessions as a whole, is the attendance regarded as satisfactory. Most of the irregularity in attendance is said to be doe to the students own shortcomings It is thought, however, that there would be less " absenteersm " if evening schools were not built so largely on the lines of the day schools. It is exceptional too, for an employer of labour to take an active interest in the evening education of his employees In Germany the distinctive feature of the continuation school system is the recognition of the principle of compulsory attendance The Im perial Labour Law of 1891 imposes on all employers the obligation of giving to their employees under 18 years of age such leave of absence from work for attendance at continua tion schools as the local authority may prescribe A decree of 1904 enjoins that compulsory classes should be held during the working day and not in the evening or on Sundays-thus avoiding the difficulty experienced in this country through the fatigue of those who attend evening classes

after a hard day's work. In the introductory chapters there is an interesting review of the prowth of technical instruction with statistics of attendance at the schools The number of enrolled students at polytechnics, schools of art, evening schools, etc., fell from 199,109 in 1904 5 to 176617 in 1910-11 There was, however, a considerable increase in the number of hours of attendance per student-in the evening schools alone there was an increase from 38 to 46 The cost of maintenance has increased largely, the total in 1904 being £369,400 as compared with £470 038 in 1910-11. Other chapters in the report devote to the training of teachers, trade schools original research, schools of art, and physical training

SHORTHAND AMONG THE ANCIENTS

Shorthand is so intimately associated in our minds with the rush of modern times and methods that it is startling (says a writer in the Philadelphia Record) to learn that some form of it was known to the ancient Greeks and Romans. Yet there appears to be little doubt that the orations of Cicero were reported with a skill and rapidity equal, perhaps, to those of many modern stenographers It is, however, difficult to state anst how old is the system of abbreviated writing The Greeks called it tachygraphy. Xenophon is believed to have employed this system of taking notes of the lectures of Socrates, which would take it back to the fifth century before Christ. This is disputed by some authorities, but there seems to be no doubt about its use in the first century By some it is held that the development of shorthand was due especially to Marcos Tollius Tiro Born in Latium in 103 BC, Tiro, who was a slave was reared with Cicero, who was some years his junior Freed he became Cicero's Secretary, and in this canacity aided bim greatly In the famous trial of Cataline (63 BC) the stenographic skill of Tiro was shown at its height. In the first century before Christ's discourse of Cato Uticensis was, according to Plutarch, taken down by shorthand reporters Early in the third century of our era is encountered the term " semenograph " (stenographic character) used by the Greek orator Flavious Philostratus Origen of Alexandria (AD 185-254) noted his rermone in aborthand, and Socrates, the ecclesiastical historian of the fourth century, said that parts of sermons of Sr. John Chrysostom were preserved by the same process

Reviews and Hotices.

CAPTAIN COOK'S VOTAGES OF DISCOVERY (J M DENT & SONS) 6d

Captain Gook is among the most illustrous med cation in the listory of Feghand. The deed of the great here are likely to inspire the noblest hand of enthusans un young minds and Messre Dent & Soos must be thanked for placing his life before them. After the preliminary begraphical introduction, the clutter has made Captain Derived the Captain of the Captain Cook humself tell his sown story of exploration Eren the casual reader of Cook a writings must be strick with the effective numeer in which he is extract with the effective numeer in which he is any siteopit at literary excilence or reterring louist. We have no heatstand in recommending that a text-book for our boys as it is full of thrilling diventives in the cance of Trust full of thrilling diventives in the cance of Trust full of thrilling diventives in the cance of Trust full of thrilling

Tods Annals of Rajasthan, by C H Pathe, (Routledge) 3s 6d

The huge volume of Tods Annals and the absence of any good edition of the work has long rendered a brief adaptation of some form absolutely necessary Mr Payne has done the useful service of collecting the most important tales in Tod's classical work, within the short compass of about two hundred pages The stories are as far as possible narrated in Tod s own words and the usefulness of the books is considerably heightened by a valuable map and a large number of illustrations. To those who have been in touch with the kind of literature placed before the Indian student nothing has probably been more noteworthy, than the atter absence of books appealing to his sense of national greatness or glorifying the achievements of his forefathers Rajasthan comprises in its history all that is noble and chivalrous in the Indian character of past ages and it is eminently desirable that every student in India must be given the opportunity of study ing if

THE STORY OF ENID EDITED BY H A TREELS, MA (GEORGE BELL & SONS) 104.

The pathetic story of the sufferings of Enid is among the most touching portions of 1he 1dylke of the Kang. The purity and rittle of Fand which stands the most violent tests of Gerannt has evoked interess admiration from thousands of readers Mr Treblu's edition of the poem is very well adapted for the use of students in colleges and

schools as it has a valuable introduction and judicious notes at the end. It was a good date of the editor's to append the version of their proposed continuity of the editor's being a proposed of enabling the as a study the story proposed of enabling the set of approximation of the enabling the set of approximations from the normal

Annold's English Literature Stries Blacemore's Loria Doone and Kingsleis West ward Ho! (Enward Aenold) 1s 6d. each

It is possible to raise an objection of some seriousness to the presentation of masterpreces in literature in the form of abrulged editions. But the inntations of class work reader it difficult to think of carrying the young student through the entire length of a ponderous novel The volucies under notice fulfil the useful purpose of actroducing two well known ansietpreces in a form satiet to the special requirements of the lower classes.

THE CHILDREN'S STORY BOOKS (MACHILLAN & CO): SCENES IN FAIRYLAND, 1s., OLD GREEK TALES, 9d., OLD EAGLISH TALES, 6d., TALES FROM NORSELAND, 6d

Tracher of elementary classes will testify to the keen interest round in their boys by any tand of story telling. In addition to the satisfaction of a taste to predominant in all youth, the series of books under review will serve the paperse of subriducing the beginner to a world of romained dealt with in literature. Comprusing these vertical control of the different control of the state of t

THE FAHRY BOOK, BY THE AUTHOR OF 'JOB"
HALIPAY, GENTLEMAN' (MACMILLAN & Co)

The author of 'John Hahiar, Gentleman' Mrs. Craik has enjoyed considerable reputation as a writer of books for children and this cheap reprint of her Farry Book will serve to ephance it.

Some of the most well-known fairy-take have been included in the volume and the name of the the Author of John Halifas, Gratienan, is a guarantee of literary ment. The despondent cry has often been set up that the doubtin of man's imagination is becoming narrower and narrower; hat so occasional glimpes of this world of fairies will serve as a corrective influence. If the grown-up mad control the influence is the grown-up mad of the boy at least finds immessurable joy in the influence of the south of the proposed of simulating interest in the world of fairnes, than this collection by Mrs. Craig.

Buske: Speeches of America, edited by A. J. F. Collins, (University Tutorial Pages) 1s. 6d.

There are few things in the History of Ecglish Literature that can rival Burke's Speeches on America in loftiness of political wisdom or in oratorical balance. The historian has regretted the neglect of Burke's principles by contemporary politicians in England, but the literary value and broad humanity of his speeches have impressed theraselyes profoundly on the English-speaking world. This edition of his speeches on America will be found very useful in colleges. The Introduction furnishes the reader with all the material necessary for a proper appreciation of the work, and the notes are judicious and comprehensive. We have no hesitation in recommending the volume as a suitable text-book for our Universities

"A COMPLETE COURSE IN BLICKBOARD DEAWING"
IN TRUCKE, BY MR. A. SURRMANYA I PER,
ASSISTANT, AND DRAWING MASTER, GOVERNMENT TRAINING SCHOOL, SAIDAPEL Price 12 Ar.
Lt. is an appelled Toucher's Hand-book. It

It is an excellent Teacher's Hand-book. It seems to be written on the same plan as the wellknown Augsburg's Drawing Books.

From every page of the book it is evident that be author has appared no pains to embrace in his book all the varieties of topics that are essaily taught in teaching illuchboard Drawing and what is more he has admirably succeeded in making the book satisable to Indian conditions. Ferhaps it would have been well if the book had the wallow of the book of the topic of the book in the beauthout of painting also treated in it. The language of the book is simple and smiled to those for whom it is intended. The get-up of the book

is all that is desirable. It may be unhesitatingly said that the book supplies a great educational need of the day and therefore should be welcomed by all teachers who have to make Telugu the medium of instruction in Drawins.

Lessons in Infant Management, by Florence Lessels Mainer. (Thomas Nelson and Sons, London). 1s. 6d. pp. 112.

The high rate of death among infants which is almost everywhere the case ought to make all responsible men pause and think a while as to the steps which can be devised to prevent it, if possible. It is now generally agreed that the high percentime of death among infants is due mostly to ignorance and carelessness. A greater knowledge of mothercraft and infant management would go a great way in helping to bring about a reduction of this high death-rate. With this idea the Board of Education (England) in 1910 issued a circular from its medical department (758) advising the teaching of infant management to all girls before leaving the elementary school. This little book is designed to meet the requirements of women who wish to be posted up with the necessary information about infant management. The book has something to say on all the important subjects of food, sleep, toilet, clothing, ailments, &c., of children. The treatment is quite plain and simple. Though the instruction cannot in toto be followed in this country, still we feel that a study of the book will be of great use, We wish the book success in its laudable object,

EDUCATIONAL CLASSICS: FREBRI'S CHIRY WRI-TINGS OF EDUCATION, EDITED BY FLETCHER AND WELTON. (EDWARD ARMOLD, LORDON), pp. 11, 246. 4s. 6d. net.

The conception of development, the introduction of which marks one of the principal differences between the thought of the present ago and that of the eighteenth century and all preceding times is that which inspires the editors of the scene of Educational Classer in which the present work appears. Fully continued that the present work appears. Fully continued that the present is the child of the past and the parent of the future, the editors apply the ideas of erolution and development to the educational problems, as the idea. With this nod in view, these volumes to the containing the writings of the great educationists whose ideas have come to pravail in the educational system of all civilized countries of the present day, are published. One of the famous names in this long list of great selicationists is that of Frenbel. The kundergarten which is necessitial feature of the present day. Elementary School curriculum is traced to this great thinker. It is therefore natural that the series has a relione on Frenbel's chief deutational writings.

Two dominant notes in the work of Fræbel are a passionate love of childhood and a lofty pantherem. The local and stimulating introduction by the translators traces to these two sources all the prominent notions of Froebel's writings. His passionate love of children is due to his own neglected childhood, among other things His pantheistic tendency is due to the philosophic environment of German idealism which just then was running its course from Kant through Fighte and Schelling to Hegel This idealism had its effect on freebel Fræbel's chief philosophical positions that " nature is visible spirit, and spirit invisible nature, that matter is only an appearance of which the reshity is spirit and therefore cognate with the individual soul, that all nature lives and manifests its life in an infinite productivity; that all creation is one with itself and with its Creator. in that all is spiritual, that the individual spirit craves to find satisfaction in the apprehension of this essential unity" look so closely similar to the doctrines of Hegel In the field of education, Frabel was early brought under the influence of Pestalozza Many of the most valuable principles generally associated with the name of Frobel are found dimly indicated in Pestalozzi's writings Early life, German idealism and Pestalozzi form the three chief sources from which flow the doctrones of Freebol

Insistence on self-education, bodily activity and kindergarten, are, among others, the primary contributions of Freebel to the history of educational thought. It is not possible within the short compass of a review to bring out all the essential points of the Fræbellian theory, yet one or two points used special mention. Freebel rightly conceived the purposive nature of mental life and laid due stress on the true function of education as being an evolving or a drawing out of the powers of man. It is the grasping of this notion that gives Freebel an enduring place in the history of thought There is no use of storing one's mind with facts True education is a self-education where one sees things for one self as far as possible. Much confus ou prevails about Frabel's ideas of discipline. Since Frabel lays stress on play and 1 s usefulcess, it is some times thought that it does not attach much importance to the value of discipline But the

fact is that, according to him, discipline is no end in itself but only a means and a necessary means to the realisation of the divine element in man which is the true objective of education The function of discipline is to allow the divine spirit in man to come to perfection. Thus Freebel clearly grasps and appreciates the value of discipline as an instrument of training the will. But he is dead against that rash and reckless discipline which enforces constraint and atrophies the free play of the will Freebel's ideas about the value and limitations of discipline are beautifully summed up to the introduction which says "external constraint and punishment have their place, but their function is not that of mechanical pressure but that of mward mapration " (p 20).

The translators have done their work well. To them we owe a debt of gratitude for an excellent introduction and a fine readable English revision of Froebels curef educational writings. We kope the book will be read by all who take an interest in this rital problem of education.

LITERARY NOTES

Messre Macmillan & Co have issued the names of the following books which will be published shortly The Children's Classics with illustrations Primary

No 12 Senior No 55

The Governments of Europe by Prof Frederic
Austin Ogg. Ph D 12/6 net.

Studies in Literature by Prof. Frederick M. Tiedel, Ph. D. 4/ net

Elementary Biology Plant, Animal, Human, by J E Peabydy, AM, and A E Hunt, Ph B, 5/8 net. The Tudor Shakespeare edited by W. A Neison,

Ph D, and A H Thorndike Ph D, I/ net per vol.:
Julius Cassar, edited by R M Lovett, A B.
The Merry Wives of Windsor, edited by

F. P. Emery, A M

The following books have been published daring

Development and Purpose Au Essay towards a Ph losophy of Evolution, by Prof L T Hobbouse, M A 10/ net

M A 10/ net

An latroduction to Metaphysics, by Prof Henri
Bergson, translated by T. E. Hulme, 2/ net.

A Short distory of English Laterature, by Prof

George Samusbury: A Re-issue, arranged in fire parts, 2/ each The Golden Tressury of Australian Verse, edited

by Bestram Stevens, new edition, 5/ net.
Soams's Phonesic Mathod for Learning to Read !
The Teacher's Manual, Peria I and 11, each 2/6.

Macmillan's Reformed Arithmetics. Girls' Edu. Teacher's Book VI. 9d. Lectures on the American Civil War by J. P. Rhodes LL, D. Litt. with map, 6/ net The Old Colonial System 1666-1754, by G. L.

Beer, Part I. The Establishment of the System. 1660-1688 in 2 vols. 17/ net.

Mesers. Hodder and Stoughton have taken over nine of the most famous stories by the Baroness Orczy including the Scarlet Pimpernel and are publishing them during 1913 in their shilling net cloth library. All the books will have new cloth bioding and new coloured wrappers, which are being specially drawn by famous artists.

The Poets and the Poetry of the Nineteenth century is a popular Encyclopædia of modern poetry, covering the area of Greater Britain and the limits of the nineteenth century, edited by Alfred H. Miles and Published by the wellknown firm of Measrs. Gaorge Routledge & Sans, L'd, in 12 rois. Each volume is sold separately

While many excellent books for technical students are already on the market, it would seem that there is a distinct need for a low priced series specially adapted to the modern organization of the Technical School and the needs of poor students. The Broadway Text Books of Technology edited by G. Sidney Yule supplies this real want The first het of volumes is on these subjects :- Technical school organization and teaching a machine construction and Drawing : The Geometry of Building construction : first year of Building construction : Practical mathematics: mathematics, science and drawing for the Preliminary technical course : The scawing for the Frenminary seconds tourse the second of Building and Building materials: Applied Michanices: Electrical Engineering; Mechanical for Textile Sindents. The volumes are all profusely illustrated and published by Messra. George Routledge & Sme.

Of Routledge's Indian Text-Book series prepared to meet the requirements of the Indian University Examinations edited with proface and copious Esplanatory notes, cloth limp, each I d; the foilowing are now ready and other rolumes are soon to follow, Hawtherne's Tanglawood Tales, Lambes Teles from Shakespeare, The Herona,

A Tensyson Concordance will be published immediately by Mears Kegan Paul Treuch Tributer at Co. Ltd. This is a complete concordance to the poetical and Dramatic Works of Alfred Lord Tenep-NO. Poel Loureate, by Arthur E Biker, 27 cal

Meserationings Englishing & Sons, Link, and Morete. Kegen Paul Trench Tribaner & Co. Lid. associatte martet noger fret meredemes any mace

during the season 1913 many important works in using the season lyis many important works in Intersture. The following are some of them:— A Guide to the Best Fiction in English, new edition by Eurost A Biker, M.A., D. Little, F.L., 21/ pet-

Children's play and its place in Education with an appendix on the Montessori method by Walter

Wood, 3/6 net. Roman Life and Manners under the Early Empire. by Ludwig Fiedlander, Vol IV, translated by Dr.

A. B. Gough, 10/. How to write an Essay, by W T, Webb, M A. sometime Professor of English Literature, Presi-

dency College, Calcutta, Il cet Collected Poems by Austin Dobson, 9th edition. with a section of new poems with a photograph, 6/.

A Grammar of the Dravidian Languages, by the late Bishop Caldwell, DD , LL D. New edition, by the Rev. J.L. Wyatt, x a and T Ramakrishna Pillai, 8 4. about 10/ net.

The following are some of the forthcoming books of the University Tutorial Press.

Preliminary English Course, by A. M. Walmsley,

* 4 Shakespeare, Henry IV, Part I, by A. J. P. Collins,

Preliminary Geography, by E. G. Hodgkison, M.A.

Algebra for Matriculation, by A. G. Cracknell, X 4 , 2 5C. Preliminary Arithmetic, by A. Barraclough, M.A.

Junior Geometry, by A. G. Cracknell, M. a. B SC. Preliminary Chemistry, by H. W. Bansor, N a.

Grammar and Thinking, a Study of the Working Conceptions in Syntax, by Alfred Daright Ste Meld: New York: Puman. In a thorough going and convincing manner, Mr. Sheffi-ld traces in this book the relation between the form of expression and the thought. The greater part of the book is deroted, as the sub-title would indicate, to a study of the working conceptions in Spatial. The value of each of our grammatical classifications and the reaction between the forms recognised by grammar and the ratied thought-conceptions are presented in a novel prd ingenious manner. The "dry bases" of grammar are to dressed that even the castal reader free that the field has been illuminated. The book will be impering to the teacher of Linglish.

Fatemporaments Speaking, by Paul M. Peerson and Philip M. Hicks New York: Hinds, Noble and Diredge, 1912 Part I croteste eight chapters co the preparation and delivery of speeches. Part !! to deroted to examples of good speeches for study. The is a very secretable back.

Madern Burmese Michide, by William II. Teller Heary L. Brewn Chesgo: Band, McNally & Co. This is an exceedingly valuable handbook Ex amples of all the business forms usually required are included together with much practical informs tion and many exercises for practice.

Heroes of the Nationa (Pittuna, So net) will come as a revision to ordinary readers. Of the first, "Roger of Stoliy," by Professor Curris, of the monthing and of the second "Centur the Great," by Professor Survey, they million only remember the story in the School books about his sitting on the season's and reboking the tides the story in the School books about his sitting on the seasons, and reboking the tides worth knowing and in these finely illustrated volumes everything that is known of them, as the result of recent research, is attractively as forth

The Oharles Dukens Originals by Edwin Pagh (Foulis 6s) This is a book that all Dickensians should read It is parily expository and partly critical and is copiously illustrated Mr. Pogh does not think that Dickens had mach sense of humonr, in spite of all the mirth that he has caused His sense of humonr played but little partin his private life, he says

Horse and Hunns of John Rushes, by Sre E. Ook (4 Miles 21s eet). This is a spicarid voluce, and with its twenty-eight colour pretures from original drawings and sixteen in black and white by Mus E. M. B. Warren, it makes a very raisable guide book for the arm class pilgrem to the continent of Europe. The book takes us planted to the continent of Europe. The book takes us planted to France, Switzerland, and Italy and talks to so the continent of Europe. The book takes and the continent of the continent of Europe. The book takes us plant to France, Switzerland, and Italy and talks to so the continent of the conti

Papers, Ovinced and Remunerceal, by Haliams Sherp, elected and arranged by Mrs. William Sharp (Hanemann, Sa. net) is fall of examples of enquairs and discerning encisions and its is a volume to be read not occe only but many tanes. William Sharp politic of most poster and the most poster of the most impression of men, most hand the most than the writer hunself, with whom he was on term of personal numbers.

The Teaching of Mathematics in the United King dow. The following set of papers published by His Majesty's Stationery Office, discuss matters relating to Recondary, Technical and University teaching In every case the writer has a special and intimate knowledge of the subject with which he deals.

The Tarshing of Algebra in Schools, by S. Barmer [14]. Research and Advanced Study as a Transmit of Nathematical Teachers, by G. H. Bryan 114. The Tacshing of Mathematica in Evening Technical Insulin tions, by W. B. Sungara carrier and the Study of the Control and Study Study of the C

The following four books published recently are typical of the modern Tendencies in History Tendencies ing A Hulory of Rurops, by A J Grant: Long mans 7s 6d. not France, by C Headhan: A G. Black 7s 6d not. The Last Lenlary in Surops, by C E M Hawkeworth, Arold 5s not. Australians, by A W Tilby, Constable, 6s not

The following are some of the recent books on Theory and History of Education

A Cyclopedia of Education, edited by Dr P Monres Vol. III, 623 pp. (Manullas) 22 net; Lifa and Work of Festalonii by Frod J A Green 530 pp. (Glies) 46 of. 145 pp. (Pittern) 12 of der, A Housement 145 pp. (Pittern) 12 of der, A Housement 145 pp. (Pittern) 12 of der, A Housement Education by Dr I W Howerth 227 pp. (Haccollila) 14 of der, he proposed of Educational Administration and Orthic Technology of Educational Administration and Orthic Country Dr F H Hayard 20 pp. (Ralph, Robard) 76 of set, Experimental Psychology and Polagony 77 of set, Experimental Psychology and Polagony 150 pp. (Ralph, Robard) 78 pp. (

A First Book of Obscastery by E Barrett and T P Nunn A O Black, It of Dr Nunn-explains in the preface that this book is based on a scheme of instruction drawn up by hanself when Scaccomaster at the William Elius School The scheme that the school of the school of the scheme authors give a great caid of information which might be educed by the perfect teacher from the perfect child.

When Kings Rade to Delia, by Gabrielle Feature, with illustrations. The book is an attempt to treat the history of Delhi as the author had already treated the history of some of the States of Relipetans in a former book. The book is miteaded only for the general reader or the traveller in Iudia William Blackwood & Some 7; 6d net.

An Outline History of English Literature, by W. H. Hudson : Bell & Sons. The author aims at

giving a clear and systematic account not of the achievements of successive great writers merely, but of national changes and development.

An Elementary Course of Magnetism and Electricity, by C. H. Draper, R.A., D.S. (Blackie). A separate isane of Section VII of the author's Course of Physics, Practical and Theoretical.

A Course of Physics, Practical and Theoretical, by C. H. Draper, BA., DSC. (Blackie). Consists usually of instructions for exercises intended to be performed by beginners.

The Historical Record of Leadon University. A fite-shilling book called "has likatorical Record of the University of University

Means. Hodder and Stoughton annuaces the first list of Charles Carrior's areas annuaces the first list of Charles Carrior's areas annuaces. They will be insued handsomity bettering a single magnificent coloured wrappers bettering a continuous areas of Carrior's producting a complex producting and the carrior country will be included. The ery best for more will be included in the carrier of Carrior's readers are numbered by the million.

SCHOOL AND COLLEGE SPORTING

NEWS.
M. C. ATREATIC ASSOCIATION.

M. C. Atbletic Association of Senior Cricket Tournament, Final, Wester v. Esgineering.

The above teams met in the final of this tournament. Though once of the matches in preliminary rounds of this tournament was by any means well contested, it was being that hay means well contested, it was thought the final at least would produce Ilowere, as it turned out, this match proved to Bower more disappointing where the previous matches, as the Engineers, who ere very lone part in any of the previous matches, as the Engineers, where very large part in any of the previous matches, gave any part in any of the previous matches, gave provided them to the previous matches, and the part in any of the previous matches, gave provided in the previous matches, and the part in any of the previous matches, gave provided in the part of the previous matches and the previous matches and previous matches and the previo

the three sons of the late Mr. Buchi Babu Naidu. all of whom were playing for the Wesley, covered themselves with clory by doing some remarkable things. To start with, Baliah distinguished himself by scoring 113 runs in the opening innings of this tournament against the Medicoes. Not content with it as it were, he knocked up against the Christians an even bigger score, namely 141 runs In this match, Ramaswami, the youngest of the lot, put up 183 runs, the biggest individual score made by an Indian here. That a youngster of his age, who is still in his teens, should have beaten all previous records is undoubtedly very creditable. We congratulate the youngster on his achieving this unique distinction. Vencataramanjulu, the oldest of the three of whom great things were expected in batting, though he lailed to justify the high expectations that were entertained of him, made up for it in a way by bowling exceedingly well in all their ionings, besides bringing about several remarkable catches in the slaps. He altogether bagged 29 wichels out of the 49 that fell to the credit of the Wesley bowlers.

THE MADRIS C. A. ASSOCIATION.

The annual sports of the Madras Collegiate Athletic Association was held on the grounds of the South Indian Athletic Association in the People's Park.

Considering the large number of educational institutions in the city to gathering of students was not quite as they as that seen on previous consistent when the property of the consistent when the consistent was the consistent of the consistent when the consistent was the consistent when the consistent was the consistent was not presented by the consistent was not up to the average of the previous years.

The programme of sports was as usual the same as in persious years. The Rev. H. Ashcreli, Capt. E. W. Bradfield, Mr. A. Guthrie, Mr. W.C.Old, Mr. J. L. Simonsen and Mr. S. Narsyand Iyeogar acted, while Mr. Q. L. Griffish was the Time Feeper and Mr. W. G. Ventham, Startor.

No less than elered of the High Schools and Galleges elected to send in competitors for the aprils, and prominent among those about represented were the Veterlanty College, the Triplicane High School, Three and Triplicane High School, Three amounts of entires for the strices events ranging from 2 to 5, and it was therefore from the truth of the truth of the sun there is not the send of the sun three sends are three sends are the sun three sends are three sen

sevents. From the list I gathered that the men the has made by thomazade here spread out not only throughout this Frendency but through the legislation of the list of the lis

In 1874 when he took his B A. Degree and when he was appointed a teacher to the Fourth class in the Kumbskonam College under the very eye of his loving patron and master Mr T Gonala Row. I had the peculiar privilege as a student and monitor of that class to sit at his feet and imbibe knowledge The impression be produced in that impressionable age was such that his students soon began to regard him as an Angel on earth with a special mission. How he taught, how soon he forgot himself and made his students forget, how nectorlike his ideas flowed, how his students drank delight at the fountain head of wisdom, how he held us spell-bound as in a trunce, how melliflaously bis utterance flowed, how metamorphosed we stood before him, how we resented the hour bell as an nawelcome intruder and interrupter, these and these were only known to those fortunate few who sat under his magical is fluence. But alas! these have become things of the past, matter of history. To the last day of his life till the very breath left his nostrals he continued to be a teacher, if not to the larger world outside, at least to his children and the children of his children. In his old and declining ago with a number of physical maladies how he was able to study afresh as an ardent student, the sacred literature of the East, how he rangacked the such treasures locked up in them with what case and flow he quoted Sanskrit slokes after slokes how he mestered the obstruse doctrines of the Advaits philosophy, how masterly he discussed with learned Pundits, these are a marvel to me,

"He learned as though he were to live for ever, And lived as though he were to due to morrow." Our only consolation now as that death has cor the saint down but he accoult keep him down. We have yet a panful duty to perform, a duty nevertheless, to convey to the bereared family our sense the deep less his children have sustained and with graph the saint of the deep less his children have sustained and with graph the proper dependence of the saint sense in the saint

MRRy 8 Ramasamy Iyer Avl then read a number of pathetic starzes composed in Tamil in memory of the decessed

MRRy K Seshu Aiyar Avl. in supporting the resolution, paid a tribute to his old teacher in a very touching speech.

The following resolution was consimuously passed, "Task the Secondary School Tescher's Association, Mayacaram, learns with intense regret the great and erreprated least the teaching, World and M. Rift S. Krishnasanny Iyer Ari, the vistens educations and also Hadmarter of the Tore like. School, Kambakonam, and conveys its "press" of the Secondary of the Secondar

Tamkur District Teachers' Association— Together the Chairmanship of Mr. T. Viscewark IJs., B. A. Headmaster of the A. V. School Tamkur, an interesting and convincing paper on the "Need of a Teacher" Association," was read recently by Mr. P. N. Venkata Ban, English Teacher of the Empress Girls' School, Tenker

Amidst the rejoicings of the 40 teachers assembled at the time, the Association took the name, "The District Teachers' Association"

The chief object being to serve the country, i.e. to help the students to turn out the best and most useful and dutaful subjects when they grow to man hood, it is proposed that any one interested in education may become members, that members should pay a monthly fee of an anna each

An executive committee of 9 members, and the following office between vers selected, Petros M Sumitreas Rac, Eag as, Innector of Schools, Mysore Gurde Persedest II N. Verbatteres mays Eag B A, Deputy Innector of Schools, Torker Dest, Servera Mr. T. Verscher M. T. Werter and Schools, Torker Dest, Servera M. T. Verscher M. School Teacher Engress Griff School Teacher Laboration and Terscorer Mr. Geroda Char, Assistant Master, A V. School Tumbur "

Hostels -The Madras Government do not approve the proposals submitted by the Director of Public Instruction Madras, with regard to the designing of the hostels and wardens' quarters to be constructed in connection with the Government Training Schools for Masters Two new and more economical designs have since been prepared by the Chief Engineer under instructions from Government, for a students' diring ball. The accommodation prowided in these plans should satisfy all reasonable requirements and the Director of Public Instruction will be requested to adopt them in the case of all proposals for the construction of bostels in connection with Government Training Schools for Masters Having regard to the importance of making hostel residence obligatory on the students under training and in consideration of the mability of most students in the elementary training schools to pay the real leviable in accordance with Public Works Department Code, the, Government are pleased to exempt such students from any lubility to rest during their occupation of hostels provided for their accommodation.

Elementary Schools — The Government of Middles have sacctioned the payment of all collections of the State of

Education of Factory Children.-Interesting light is thrown upon the number of children employed in factories of this Presidency by a Government Order which has recently been published regarding their education. According to latest published reports there were 201 factories in this province with an average daily attendance of 4.725 children. Of these factories very few do anything for the children employed thereio. The two notable exceptions are the Carnatio and Buckingham Mills in this city which on the 31st March last, had respectively 277 and 274 pupils on the rolls of their schools. Out of the total of 4,725 children, 3,059 are employed in factories in places where, is the opinion of Sir A. G. Bourne, Director of Public Instruction, provision for their education exists or measures to that effect eeem practical At present only 602 children receivs education at these places. Sir A. G. Bourne therefore proposes and Government have accepted his proposal, that a number of halftimer's schools be started in places where there are factories employing a considerable number of children and where managers promise their cooperation in securing the education of children These schools, to the number of five, will be started in the following places, one at Ellore, Madura and Tuticoria and two at Coimbatore, affecting 1,532 children. These proposals only select juke and cotton factories, and it is recognised that there are certain other industries, for example, rice mills which employ a considerable number of children on whose behalf schools might be opened, if the tentative measures proposed prove successful.

The Government High School for Indian Girls. Vizagapatam —The opening exceeding of the Government High School for Indian Girls. Visagapatam was celebrated with much selat on the 4th instant in the school premises.

The proceedings began at 5-10 r.m. with the opening remarks of Mrs. Cecil Rhenius, the Inspectress of Girls' Schools, Northern Circle.

At the conclusion of her speech she read extracts of letters from various gentlemen showing their sympathy with the movement.

Among the speakers were Mr. P. T. Srinivas Ayangar, Principal of the Mrs. A. V. N. College, Vizagapatam, and Mr. V. V. Siyayadhani, the Sabordinate Judge of the town.

During the intervals verses and slokes composed for the occasion were read out by the Pandits of the school and the Minsic Instructor engaged the audience by playing the Yina.

A Pupil Teachers' Association.—The Tenth Appiversary Meeting of the Pupil Teachers' Association connected with the Government Training School, Tanjore, was held with Mr. Hart, MA-Inspector of Schools for the Range, in the chair. The Secretary's report showed the useful work done at the several meetings. A lecture on the wellknown Tamil poet Kamban and his works was deli-vered by Mr U Sivagnanam Pillal in Tamil. The Chairman congratulated the Association in its steady solid work and suggested the desirability of all Government schools and colleges providing for the distribution of prizes to successful pupils as was done in years gone-by. In the course of his remarks he impressed on teachers the importance of inculcating good principles in the lessons taught during the course of their daily work in school, Mr. Hart referred appreciatively to the King-Emperor's speech on education and the recent resolution of the Government of India on education and the prospects opened out for teachers. The speech was eminently fitted to the Association and Mr. Varadaraja Iyengar, Head Master, thanked Mr. Hart for his friendly counsel.

Educational Exhibition—At the Tudivacam Educational Exhibition the prices were a nonneed by La Branch and Impectory Mr. State kopacher and the Company of the Company knowledge of the Company of the Com

Mr. T. V. Sirakomara Statist came next and in a happy speech, summed by the various screllences of the embiding and Mr. Statkopacharit for the West trouble they had both taken in the case the white of the exhibition; and annual innitiation is rindurating, punct. He also a banked Mr. Gopalrealized they have been a summal innitiation in produced by the state of the state of the realized pages for the walnable anguestic are recalled these to Elementers beauty thacks to the Fresident ble Sub-Ansutant Isapector, the and that a Mahomedan gentleman has expressed his readiness to make a donation of 10 lakhs for founding a college if the scheme is matured

It is proposed to extend the Currimbhai Ebrahim Mahomedan School, the foundation stone of which was laid by H E the Governor in November last

Education Grants -Out of the Durbar grant of Rs 50 lakks for nonelar education, the Bombay Presidency was given Rs 650 000 distributed as follows among different objects -Rs 436000 for the elementary education of boys, Rs 75 000 for the education of girle, Bs 48,000 for hostels, Rs. 51 000 for technical and industrial education, and Rs 40 000 for the education of Europeans and Anglo-Indians Of these amounts Rs 1.50 000 has been given to Municipalities for their pri mary schools, Rs 1,50 000 has been utilised for increasing the output of trained teachers from the Training Colleges at Poons Dhulis Dharwar, Abmedabad and Hyderabed, Rs. 25 000 for giving increased pay to teachers in vernacular schools, and Es 1,11,000 for other objects in connection with primary education Of trained teachers the institutions pamed above will henceforth turn out 146 more per acoum than they have done till now A som of Rs 20 934 has been sanctioned for the entertainment of 14 Additional Assistant Deputy Inspectors of Schools The sum of Re 75,000 assigned for the education of girls has been equally distributed among the four divisions of the Presidency In Sindh, more than half of the allotment will be utilized in increasing the grants to aided girls schools from one third to one half of their gross annual expenditure, and the balance will be applied chiefly to she development of the Training College for Women at Hyderabad In the case of the Southern Division the allotment will be utilised mainly for the development of the Dharwar Training College for Women The manual training classes in connection with the Training Colleges for Men at Poons, Ahmedabad, Dharwar and Hyderabed will get Rs 8000 for buildings and equipment, Rs 5,5000 will be given to the Victoria Jubilee Technical Iratitute Bombay, for machinery and apparatus; Br. 5,000 for oil et gine, wood working machine, otc. Victoria Jubilee Technical Institute, Sunkur, and Rs 8,500 to the College of Engineering, Poons, for equipment, furniture and books for the library sum of Rs 15 000 has been reserved for the College of Commerce.

Commercial Cultigs — A morement has been set on foot to rase a momercal to Lord Systehum on Montay. A subscription list is being seek round among the leading members of the Indian commonity Serseal have primated their support to the monity Serseal have primated their support to the scribed. In MILICAD has already been asherbed and the MILICAD has already been subscribed as the Lordon of the MILICAD has been subscribed as the Lordon of the Commercial Cultigs. The following name have been subscribed or roomsed—II II the Quelarare of Barcada in Europio for the building food polarare of Barcada in Europio for the building food polarare of Barcada in Europio for the building food polarare of Barcada in Europio for the building food polarare of Barcada in Europio for the building food polarare of Barcada in Europio for the building food polarare of Barcada in Europio for the building food polarare of Barcada in Europio for the building food polarare of Barcada in Suppose the Barcada in t

and two monthly scholarships of Re 20 each (in all Rs 32,000), the Nawah of Longsight Rs 1500, Maharajah of Bhavanagar Rs 10,000, 776 Rs; Sabel Ghrainagah Rs 1500, Maharajah of Bhavanagar Rs 10,000, 250 Rs; Sabel Rs; Londo Handell Rs 10,000, Sir Mangal Rs 10,000, Sir Mangal Psi 10,000, Sir Corasj Jehangur ready money Rs 10,000, Sir Corasj Jehangur ready money Rs 10,000, Sir Corasj Jehangur ready money Rs 10,000, Sir Sabapar, B. Broache Rs 10,000, Sir Vansawar 10,000, Sir Corasi Jehangur Rs 10,000, Sir Vansawar 10,000, Sir Napar, Rs 10,000, Sir Vansawar 10,000, Sir Vansawar 10,000, Sir Napar, Rs 10,000, Sir Vansawar 10,000, Sir Vansawar 10,000, Mar Narotom Morarj Gikuldas Rs 10,000, Mar Narotom Morarj Gikuldas Rs 10,000, Mar Narotom Morarj Gikuldas Rs 10,000, Bay Rs 10,000, Mar Narotom Morarj Gikuldas Rs 10,000, Bay Sirjupia Rs 10,000, and Nareb of Fainpir Rs 10,000, and Nareb of Fa

CALCUTTA

A Research Scholarship —The following graduate of the Calcutta University is granted a research scholarship of Rs 100 a month for one year, with effect from the date on which he reports himself to the officer under whom he will carry on his work

Name.—Surendra Mohan Ganguli

Subject in which research will be carried on-Pure Mathematics, with special reference to the subject of Projective Geometry

Place of work -The Calcutta University Library.

The Directorship of Public Instruction -- The "Times" understands that Mr Horsell of the Board of Education, has been appointed Director of Education, Beneal.

A New Museum at Dacca -The Bangal Governmens has issued a Resolution approving the scheme of satablishing a museum at Dacca for objects of historical and antiquarian interest. A large room in the Secretariat at Dagos has been set spart for the use of a museum and a representative General Committee has been nominated for the purpose of making detailed arrangements. It will probably be found desirable hereafter to connect the museum in some way with the Dacca University but meanwhile it is necessary to make provision for articles which have already been collected and which are at pre-sent stored in the Oilectorate and in private bouses waile the cetablishment of a musum will stimulate and co-ordinate the energies and acti vities of many local workers whose labours have already produced valuable results ___

ALLAHABAD

Proposed Memorial.—An influential committee is bring formed to commemorate the ten years arrived rendered to the Central Hindu College and Indian education by Mr. G S Arondale, the retiring Honorary Principal

Allahabad Christian College Literary Contest.-The annual literary contest of the first and third year classes of the Arthur Ewing Christian College was held in the West Hall on the 7th March. The officiating Principal was in the chair. This year the programme consisted only of declamation exercises. The Rev Mr. Smith; Mrs. Ewing and Prof. Thompson acted as judges. There was a large gathering of students The principal speakers were Messes. John Rawat Sushii Mukerjee, J. N Bannerji, Frank Rawat, and Benjamin The subjects chosen were 'The Greatness of Lincoln, 'Vision of War,' Speech of Spartacus to the Envoys of Rome', 'The South African Question', and 'Toussaint L Ouverture.' Mr. John Rawat was awarded the first prize and his speech was highly appreciated. Mr. J. N. Bannerja got the second prize. Mr. Benjamin, though he was defeated, showed great preparation.

PUNJAB.

Primary Education in Sirmur.—In the celebration of his installation, the Reja of Sirmur has announced among other concessions, free primary education in State Schools.

Maharaja of Patiala's Charity.—His Highness the Maharaja Babador of Patiala has, on the birth of the Tikka Sahib, been pleased to make donations to the following inclinations in the Paniab:—

			Rs.
Khalsa School, Gujranwala	***	***	10,000
Girl School, Kairon	***	***	5,000
Girl School, Bhasaur	***		5,000
Khalya School, Pindi Gten	***	***	5,000
Khales Orphanage, Amritaar			2,000
High School, Firoke	***	***	2,000
Bigh School, Ambala	***	***	2,000
Dharamshala, Hyderabad, Sin-	db	***	2,000
Middle School, Sukho		***	1,000
Nikh Orphanage, Garihak	***	,.,	1,000
Sikh Sewak Jatha, Maler Kotl			1,000
Temperance Society, Amritaa	è	***	1,000
Dharamshala Sant Bhai Siam	Singh	***	003
Orphanage, Patiela	`		500
Sewak Jatha, Paliala	***	***	500
	Total .		28.500

MYSORE.

Mindergarten System.—The Government of Mysore recognizing that suitable arrangements in Mysore for the education of children below six Paras of age on the modal of the kindercarten System in rogage and the advanced country and the property of the control of the

sanctioned the proposal of the President of the Municipal Council, Bangalore City, tentatively for a period of three years, but having regard to the orienmatance that at present, the institution is required for the convenience mainly of a particular class, vis., the children of rich parents, they direct that at least half the cost be met from fees, the balance alone being borne by the Monicipal funds,

School Buildings -- Provision had been made in the Mreore State Funds Badget of a lake of rapers and of half a lake in the Village School Funds Budget, for school buildings. The Inspector-General of Education had arranged with the Dennty Commissioners of Districts for suitable sites, and with the Chief E. gigger for the construction of the be ldir as simultaneously in all the districts, so that the full amount of the two grants might be utilized before the close of the correct efficial year. The have heen approved The Comptroller has been requested to arrange for the transfer of necessary funds from the provisions for village school buildings in the current year's Education State Fund and Village School Fund Endgets to the Public Works Budget on requisitions from the Inspector-General of Education from time to time.

The C. E. Zenana Mission School.—There was once a large actuadance of kadies, both English and Muhammadan, as the Church of England Zenasa Mission School, on the occasion of the sunsat distribution of prises. Mer. E. H. Campbell presided, and kindly sense wavy the prace; After a byun and prayer, the little girls and infants in the A class went through their answell strill very pretrift, letter was a strill reary pretrift, and the contract of the listing of the contract of t

The primes consisted of doils, work-boxes, bags, eto, which were the gitts of frieads in England, and represented much loving sympathy. The expenses of the gathering itself were defrayed by friends in Mysare.

TRAVANCORE.

Retirement of a veteran professor—It is understood that Mr. Masories F. Le Boucherdiers will retire from the Professorabip of English in El. II. the Makarija's College within a few weeks. The Educational Service will loss as good and long and uncessall carrer, extending over 35 years, in Terancore throughout which he has won the good regard and genuice esterem of many houdered of audients. Mr. Le Boucherdiere, it is stated, in the condition of the second over in Heagendow after he can do not not be second to settle down in Heagendow after he face therefore, will be prescribely lost to be conterpreted by the professor therefore, will be prescribed the last of the fills and for

which he laboured and toiled with a willing heart, with a passionar's devotion to duty and with a particular and loyalty which he has never hartered to the fleeting interests of faction or section. The name of Mr Manroe La Bouchardlers will for all time, be treasured and veverated in the house of many a Texascoreau.

Teachers' Examination —It is notified that the practical examination for Teachers' Normal Certificates will be held on Monday, the 26 h May 1913, at Trivandrum for all grades and at Kottspam for English Middle School Lower Primery Vernacular and Primery Normal Certificates

Education in Travancors -- During the enterprising administration of Mr P Rajagopala Chara, its present Diwan Travancore has made notable advance in the educational field, the policy now pursued being a combination of extension with efficiency It has been wisely recognised that the mere spread of education without at the same time insuring a really desirable degree of efficiency in the metracion imparted, would be a very question able expenditure of money and energy, and so, it is now massted upon that there should be no sacrifice of quality to quantity At the same time, the boon of free primary education together with the annual increase of expenditure incurred by the State, is a clear proof that the Darbar is carnestly desirons of seeing the great blessing of aducation extended as far as possible among the masses of the population

COCHIN

A Mopla School —The Government recently sanctioned an extra subsidy of Rs 80 000 to the Cochin Manuspairty for expenditure on the construction and equipment of dementary school buildings. The Council at a meeting held recently decided to construct a pacea Mopla School at Cairette.

Scholarships —There are at present issues Sinds subsequences on the Ocean Design In addition to the new scholarship for training in Richancel and Siciencel Engineering the Durbar Richancel and Siciencel Engineering the Durbar North State of the Sicience Sequences of the Sicience Sequences of the Sicience Sequence of the Agricultural Decree of the Agricultural Scripe The Will commence from Oxfoliar next-time of return of the Agricultural College to Commence on the return of Richards Scholarship for a Irmale candidate terms of the Sicience Sicience Sequence (Sicience Sicience) and Sicience Si

Foreign Rotes.

GREAT BRITAIN

Congress of Historical Studies —The Government will give a banques at the Hotel Cecil, London, on April 3 to welcome the delegates sittending the International Congress of Historical Studies, of Lorentz and Congress of Historical Studies, of and the Congress begins on April 3 Act continuous till April 9 Lord Heachening, First Commissor of Works, 13 issuing the invitations to the bacque of the Congress begins on April 3 Act continuous till April 9 Lord Heachening, First Commissor of Works, 13 issuing the invitations to the bacque of the Government The chart will be taken by Mr. Peaus, Prendent of the Board of the National Congress of the Congress

Law Library for Indian Students -- It was announced on May 6 last, that arrangements were being made by the Secretary of State for India in Council to form a Law Library at 21, Cromwell Road, for the use of Indian students the scheme baving originated with a spontaneous offer from Sir Thomas Raleigh, a Member of the India Council, to make a gift of a part of his collection of law books. The presentation comprised some 750 volumes of English Liw Reports, and it was at first proposed that the library should be named after the generous donor; but in deference to the wishes of Sir Thomas Baleigh himself it is to be known simply as 'The Law Library.' The Secretary of State made a grant for the purchase of new works, and with the sum 150 text or reference books were bought, while in addition some 400 volumes of Indian Law Reports have been transferred from the Indian Law Reports have been transferred from the India Office library bring-ing up the total to 1,200 volumes Further addi-tions will be made from time to time in order to give comprehensiveness to the library. The formal opening ceremony took place on February 13 under the chairmanship of Mr Mallet, the Secretary for Indian students In addition to a large number of Indians the company included Sir Thomas Baleigh, Mr T W Arnold, Mr C E Buckland (Chairman of the Managuning Committee of the Library), Dr F W. Thomas Professor Neill and Miss Beck. With reference to desires which have been expressed that the scope of the library should embrace non legal departments of study, Mr Mallet said that the Committee felt it was desirable to furnish a law library thoroughly and well with the fouds at disposal, rather than to restrict its nerfolness by obtaining at this stage books on other branches of study But if generous donors presented books ou other subjects these contributions would be gladly welcomed Sir Thomas Raleigh hooed that as time went on the Indian centre would be not only of a domestic but of a collegate character. As the majority of young Indians in London were law students, their interests would be best served by a library of this kind He laid emphasis on the knowledge required by a practising barrister being

superior to and distinct from the knowledge needed for passing law examinations. It has been arranged to bold moots, or mock trisls, periodically, the arguments to be put by the students, under the preaidency of retired High Court Judges

Distressed Indian Students Aid Committee — The Distressed Indian Students Aid Committee in the report for 1912 state that 45 applications received but soom were returned to the spin cathe were not been seen to be spin cather with the parents. Temporary advances were made in 27 cases, nine enabling repairation of Advances repayable at the end of the pear amount of 1920, but ultimately some of the debts will be wiped off as irrecoverable. A cominance of a scriptions is required to meet each losses and extend the Committees usefulness.

Educational Requirements of London—Some side of the methods by which province is under for the methods by which province is under for the contract of London can be authority of the form the sunnel settinates prepared for the London County Council by the Education Comuttee both under the heads of manufactories and capital estimates for the financial Subscription and the Council Council by the Education and Capital estimates for the financial Subscription on the Council Subscription Council Council

These figures, however, unclude the £269 674 expenditure of other Committees on education but as the golimates of the other Committees on education have not yet been presented it is not possible to give complete figures for an estimate for 1913-14 the total of the estimates of the Education Committee for the year 1913 14 are as compared with the total of those estimates of 1912 13 is as follows -Elementary Lducat on £4 100,620 Higher Education \$934.750 total £5 044 570 Among the amounts to be voted are -Books apparatus and stationery. £145 950, school keepers and cleaning £155 260, rates and taxes £215 700 children a meals, £81 450, medical inspection and treatment, £28 005, salaries of teachers £2 656 905, instruction in special sub 1sets, £117 225 secondary schools £213,025, echolarships, £137 690, training of teachers, £97,185, polytechnics and technical institutes £214 890. Council evening schools, £121 365, special schools for blitd deaf defective, and epileptic children. £134330 and industrial and reformatory schools £82 500 Commenting on the estimates, the General Purposes Sub Committee state that the total estimated expenditure of the Liementary Fducation bub Committee amounts to £2 807 095 an increase of £-3.795 There is an increase of £49.590 in respect of teachers salaries On higher education there is a not increase of £20 555. The total amount provided in the draft capital estimates for the year is £1 000,000, of which £565,000 is required for elementary education purposes, £100 000 for special and industrial schools, and £215 000 for higher education

THE OXFORD GEOGRAPHIES:

Vol. III

THE SENIOR GEOGRAPHY

BY

A. J. HERBERTSON, M.A. (Oxon.), Ph.D. (Freiburg IB)

Reader in Geography in the University of Oxford

AND

F. D. HERBERTSON, BA (LOND)

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versity Scheme

Chapter VIII lays down the methods of instruction and study.

The Dacca Uni-

with an eye to economy and efficiency The training of students is to be effected by means of lectures, tutorial instruction, laboratory and seminar work and supervised private study For purposes of economy the laboratory is to be a central one and the lecturing in Science is to be by University Professors and a free use is to be made of the inter collegiate system In Arts however, much of the work in the Junior or Intermediate stage in which the number of students would be large, the buck of the work is to be done separately by each college, but in the senior classes the lectures are to be inter collegiate This arrangement is calculated to enable the Professors and their Assistants to specialise in particular portions of the courses In Madras where we have no such central University laboratory and where the different Colleges seem to have conflicting interests, all this seems impossible and much of the labour of the Professors and their Assistants goes to waste by one and all of them doing the same kind of work in the different Colleges The largeness of the number of students in some of the Arts subjects such as Lugish, may be a bar to the adoption of this method But for most of the subjects such as History and I conomics, Philosophy, and classical and vernacular languages, the various Colleges may join forces at least in the Honours classes This is all the more desirable in Science teaching, and it is a question well worth the serious consideration of both the University and Government. Some of the Madras Colleges are unable to seek affiliation in Science subjects because they cannot afford to equip an adequate laboratory, while the Presidency and other mehre Colleges are wasing their resources in maintaining each its own laboratories—resources which might well be utilised in strengthening their professorial staffs and contributing to the payment of first-sis Professors who might be induced to come down from Europe for money as well as for love A central laboratory for the city of Madras and as few common Professors will be underfere with the distinctive character of each College where the best lot the instruction will continue to be given A similar course may be followed in all contres where there are more than one still interded college.

Another matter which calls for the notice of the Madras Colleges as the number of students in each class The strength of the Intermediate classes in the more flourishing of these colleges rarely falls below eighty, while that of the BA classes in English is double that number The Committee is of opinion, and very rightly too, that as the students in the Intermediate classes require a simpler and more explanatory form of instruction involving some degree of individual attention those classes should not contain more than 40 students Again, in Madras, owing to the largeness of the classes, tutorial work cannot be satisfactorily done, and both the professor and the tutor do the same kind of work-each lecturing on different subjects and the latter doing very little of real tutorial work. A tator should have small classes to deal with but the Professor can assemble all the classes of the same year for his lectures. If internal work is to be satisfactorily and efficiently done the number of tutors must be considerably increased and the large classes divided into sections, each section being given to the charge of a separate intor. The Committee propose a

very considerable measure of tutorial assistance to the Professor so that each tutor may not have more than 20 students to attend to in the Pass B.A. classes, and only two in the Honours classes in their special subjects. The question of the proportion of the number of teachers to the number of pupils is one which deserves more than a passing notice. From the latest statistics available (1912) we find that the proportion of Professors of all ranks (including Pandits) to students in the Colleges affiliated to the Madras University is 1 to 13.2. At Oxford it is said to be 1 to 7-2 and in Manchester 1 to 64. The Pachaiyappa's College, the Madras Christian College and the S.P.G. College in Trichinopoly are the worst offenders in this respect, the proportion in them being I to 25 3, 1 to 18 3 and 1 to 24 4, respectively. The Universities' Commission of 1902 recommended an average of one teacher to 15 pupils. We hope the University Periodical Inspection Commission will take this into consideration at the earliest opportunity and compet these Colleges either to reduce the strength of their classes or to add considerably to their staff.

Unlike in the Madras University ample provision is made for post-graduate study and research by the institution of the M.A. List, D. and D.Sc. degrees, and facilities are provided for it by means of seminars, special somisting for it by means of seminars, special somisting interacts, a common University library and a invasion and the granting of research scholar masseum and the granting of research scholar challed, which the Madras University has provided for post-graduate study can bear no comparison with what is proposed in the Dacca University by the provisions for the granting of the higher degrees and the other measures referred to.

Chapter IX is devoted to the methods of examinations and topics relating thereto. The system of estimating the value of answers to question papers is not to be by assigning marks to the different questions except in the Intermediate examination, but by the general impression left on the examiner after reading through the whole paper. The questions should be simple and straightforward, directed to discovering what the student knows rather than to test his ingenuity. A colloquial test in the language subjects, and a ring roce examination in other subjects in the case of examinations above the Intermediste are recommended to be used only in doubtful cases to determine whether the atudent should be held to have passed, or in what class he should be placed.

Chapter X deals with the most important question of the number and qualifications of the staff and the work to be expected of them. The proposal is to keep up the present division into officers of the Indian Educational Service, Provincial Educational Service. Subordinate Educational Service and Junior Assistants (i.e., young graduates appointed on temperary duty). Such a classification or something similar to it seems to us necessary from the nature of the case, but we hope that Indians educated and trained in England and not in any way inferior to Englishmen in . attainments-men like Mr. Paranipye, Dr. Bose, Dr. Ray and others-will be freely admitted into the Indian Educational Service and not relegated to the Provincial Service simply because they are Indiana. The Committee calculate that excluding the Principals of Colleges there would be required 22 I.E.S., 43 P.E.S., 21 S.E.S. men and 34 J.A.'s for all the subjects both in Arts and Sciences. What we attach more importance to then the number

is the question of qualifications of the I.E.S. men The Committee is evidently convinced that the present system of recruitment for the professoriate in Government Colleges does not secure the best men possible, and on this point public opinion is quite in agreement with their views. But the causes for this state of things are, we think, not exactly what the Committee assign. In their opinion " Young Englishmen however brilliant, who, having only just finished their examinations and started original work, come out to India, find in many cases their outhusiasm weakened by the lack of an inspiring environment and their difficulties exaggerated by the absence of the accustomed facilities and the help of the older men." The Committee therefore recommend that generally men of about 40 years of age should be appointed, as younger men will not have had the necessary experience, and that at least at the outset, a limited number of these should be men of eminence who have made names for themselves in Europe, whose services are to be got on special terms on salaries of Rs. 2000 or even more per measers of necessary. The advantage of getting such eminent men is that they will serve "as a connecting link with Lurope and so assist in keeping the University in touch with other centres of learning and research. They will put energy and high character into all branches of the teaching of their subject. They will in fact teach the teachers-the most important branch, perhaps, of the work of a modern professor." We hope these recommendations will be carried out in their entirety.

The present method of recruitment has given no satisfaction because so far from brilliant scholars being selected, the young men

sent out are not even third rate men, and the principles which guids the Secretary of State in making the selection are not paterly People therefore anspect that nepotism pravails in this matter in the India Office. It is therefore desirable in our opinion that vacators should be widely advertised in Logland and the best men available, men who have had distinguished University careers and have already had some experience in carrying on research work in England, should be appointed on salaries sufficiently attractive and on short terms if necessary. Young men fresh from the Universities may be appointed but they must be selected by a Board appointed for the purpose in England consisting of Professors of English Universities, and they must be made to go to Lurope every four or five years and keep themselves in touch with the most up-todate developments in Science in that country, They may be granted even their full salaries during these periods provided they produce satisfactory evidence of their diligence in this respect. We want as many such Europeans as possible in the professoriate provided they are men who will sympathise with the students in all their difficulties, and not develop Babadurism, but associate with the students in and out of college as far as possible. Eminent men should be secured regardless of cost for the teaching of Sciences, History and Leonomics and Loglish. We would recommend that all second grade colleges should have at their head Englishmen or Indiana trained in England or other European countries. It is only then that University education in India can come into line with that of the modern civil ized countries of Europe and America.

The other noticeable point in this chapter is the classification of the whole teaching

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staff into (1) Senior University Professors, (2) University Professors, (3) Professors, (4) Assistant Professors and Demonstrators. (5) Junior Assistants. A Senior University Professor is the Chief Professor of a subject in the University to be appointed by the Chancellor from among the University Professors. A University Professor is defined as a Professor who takes part in postgraduate instruction and on whom the title is conferred by the Chancellor. The term Professor used without qualification denotes the senior teacher of a subject in a college in which that subject is taught up to the B.A. stage. The term Junior Professor or Assistant Professor denotes the other permanent members of the staff according as they are, or are not, of the status of an officer of the Provincial Educational Service. Besides these there are to be Demonstrators and Junior Assistants. These last are young graduates, i.e. M.A.'s and M.Sc.'s and D.Sc.'s appointed to take part in the work of instruction, especially tutorial work, for the temporary periods of three years or until they secure employment outside or are absorbed into the colleges. This, we consider, is a very useful arrangement both from the point of view of the young men themselves and from that of the University. As pointed out by the Committee, the employment of such men will enable the Colleges, by increasing the proportion of teachers to students, to lessen the size of the junior classes and to give a larger measure of tuition in the senior courses, without incurring the enormous expenditure of making large additions to the Indian and Provincial Services. There is a load complaint that the Educational Department in Madras, or for the matter of that in the

other Presidencies, does not attract the hest' talent from among the Indian University men. The practice here recommended would. we think, go some way in remedying this evil if Government would institute a large number of scholaushins and choose men from among: these ignior assistants of the colleges to go to England and study in the English and other Universities for two or three years the latest methods of teaching and of inspection on the condition that they should serve in Government or Aided Colleges in the capacity of teachers or in the Inspectorate. Of course, in their case the age limit of 25 for employment in Government may be exceeded. The money thus spent would be certainly well spent. Besides. Aided Colleges are sure to have recourse to these junior assistants or may be compelled to do so for recruiting their staff and will be obliged to offer them larger salaries than they get as junior assistants and bettor prospects of promotion in the future, and this will indirectly improve the position of those entering the teaching profession even in private colleges which are now generally run' on the 'chesp' principle.

Chapters XI and XII deal with Accommodation and Equipment and Fees and Scholarships. We do not propose to enter into the details of these subjects as they are not likely to interest our readers in this country.

Chapter XIII speaks of the Residential System. The Committee are of opinion that the new University will not fulfil its purpose unless it provides for the residence within the colleges of all stodents not living with parents or duly authorised guardiane, and even this latter privilege they would limit by, special conditions such as that the guardian should be such as are approved by the

of Orientalia evinced by Government and applauded by a small acction of pseudonationalists. These latter are good natured gentlemen who are totally ignorant of the aplended editorial and research work in Sanskrit done in Germany and in recent days in Lugland and France and the United States and who therefore believe that Westerners have everything to learn and nothing to teach us in matters Sanskritic It is the natural outcome of this belief that special protection should be afforded to Pundits We quite agree that Pundits should be given a living wage but when this new-born love of Pundits goes hand in hand with the nolicy of depriving the country of the service of modern German and English scholars we feel that when we want bread we are given atone How is it that scholars, profound and sympathetic, like Cowell, Buhler, Keilhorn are not nowadays imported into India? How is it that the Registrar of the Calcutta University is the solitary relic of an extinct species? By all means pay Pandits to keep them alive, but give us scholars to teach us modern methods for modernism alone can save India Mediavalism we have enough and to spare

Sir William Rameay and Professors Collie

The birth and death atoms and Patterson recently read two papers at a meeting of the Chumical Spousty which town a notable contribution to

Society which form a notable contribution to the sower school of physical thought. In the opening years of the century Sir William Ramsay and Mr Soddy prored the indestructibility of the atom-about which Tyudali and luxley used to speak so much-was not a fact, by their discovery that the element radium spontaneously degenerated into helium and radium emanation, are years later.

copper was subjected to the action of radium emanation and a part of it was found to be changed to lithium, similarly silicon as well as thorium yielded carbon dioxide emanation or niton was then found to be " extraordinarily energetic, more so than any other known substance, so that a cubic centimetre of it gave more than three and a half million times the energy of a cubic centimetre of explosive gas." Whon the emanation decomposed, 6 per cent of the energy of the emanation appeared as \$\beta\$ rays, but as it was difficult to deterraine whether it was possible to find signs of chemical transformstion through the \$ rays, Sir W. Ramsay made the attempt with old X ray bulbs. On heating them to 300° and collecting the gases, be found they showed the spectrum of helion Whence the helium ? 'It might and neon have been derived from the electrodes or from impact with the cathode or anticathode or from the impact of the cathodic rays with the glass" Moreover water treated with the radium emanation produced neon, sug gesting the equation, belium (4) plus oxygen (16) equals neon (20) Professors Collie and Patterson starting from different points of investigation and performing experiments too complicated to be described here, arrived at the same result. The upshot is this that the experimenters assisted at the artificial production of elements of low atomic weight-This is the most momentous discovery of these days in which great discoveries follow each other in mad hasta

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PHONETICS AND ITS APPLICATIONS.

PHONETICS is the science of pronunciation, the science which deals with the analysis and classification of speech sounds and their distribution in connected speech

The most widely known and on the whole the most important application of phonetics is its application to the study of modern foreign languages. The importance of the science here her in the fact that it enables us to learn to pronounce foreign languages with the pronounce foreign languages with great correctness, with far greater correctness than is possible by mere imitation.

It is a fact sometimes overlooked that the work of learning to pronounce a foreign language falls into two distinct parts. In the first place the student must learn to fores

and reproduce readily the speech sounds occurring in the language, and in the second place he must learn to use the right sound in the right place

The correct formation of the sounds is best acquired by careful imitation of good speak-res combined with a study of phonetic theory Ability to use the right sound in the right place in connected speech is arrived at by making use of phonetic transcription

An illustration of the use of phonetic theory is found in the vowel sound occurring in words like saw, short. This sound is rarely pronounced correctly by Indians, but the correct pronunciation may easily be attained by observing the position of the lips. The lips should be very much 'rounded,' that is, drawn together so that the opening between them is quite small and as nearly round as possible. As this lip position is unnatural to many Indians it is often useful to practise lip exercises with the object of califirating facility in this use of the lips. Such are

0 2 0 2 0 2 8 *

• The phonetic symbols here used are those of the International Phonetic discontion. u: is the cowel in score, 1: the towel in sec, e: the vowel in bird, 2 the rowel in sea a: the rowel in colm, the : ind cates length of the vowel In practising these exercises care should be taken that the whole of the work is done by horizontal motion of the corners of the lips. There should be no vertical motion of the lower jaw. The tendency to lower the jaw for the 1, a and a may be corrected if necessary by holding the end of a pencil between the teeth during the exercise.

The use of phonetic transcription is exemplified in the two pronounciations of numerous small words such as and of, baf, from, hare In some cases, as for instance when pronounced by themselves, these words have strong vowels, and rhyming with hand of having the same vowel as not, etc. In other cases, however, these words are prenounced with a very short indistinct vowel identical with that heard in the first splishle of about (often called the 'neutral' vowel phonetic symbol e) The following are eximples of sentences in which the above words have the vowel

Father and mother,
The king of England,
All but one,
Away from London,
I should'nt have thought so

It is very rare to find Indians who use this 'nontral' vowel correctly They generally most accept when seek as no simple rules can be given for the use of the neutral vowel, the fault can only be corrected by continual reading of phonetic texts. By this means the student gradually gets to know the circumstances under which such words should have strong vowels and the circumstances under which they should have the neutral vowel

It should be observed that a knowledge of phonetics and the methods of applying it to the study of foreign languages is particolarly valuable to explorers, missionized and all others who have to learn remote and difficult languages. A good training ingers all phonetics will enable a person to acquire a good pronunciation of such languages eres of there are no assistatery books and no good teachers. A person who has had such training can analyse for himself the pronunciation of the language he is studying, and dense has own exercises for learning to pronunce the difficult sounds.

The writer has it on good authority this missionaries sometimes go to China for seviral years, and after studying the language the whole time, are still unable to make them selves understood and have to give up the language on despair. That such a slate of things can exist cannot but fill a phosational with amazement. From personal experience with the Cantoness disalect of Chiness the writer is able to say with condidence that a phonetically trained student can acquire at any rate a perfectly intelligible pronunciation of this difficult language with a few weith systematic work.

It should be observed further that a thorough knowledge of phonetic theory and experience on the use of phonetic transcription are absolutely essential for those who wish to take down in writing languages which have bitherto not been written or which have bitherto not been written or which have bitherto had no fixed orthography Much harm has been done in the past by missionaires and others attempting to write down such languages without proper how ledge of phonesics. The result has been that the systems of writing adopted have office there office and the proper how been on tearly so good as they might have been, and have sometimes been actually in leading or erroneous in some respects.

desirability of applying phonetics systematically to the study of Indian languages, not as they theoretically oughs to be spoken but as they actually are spoken in ordinary conversation. What is wanted is that the formation of each of the sounds in the ordinary spoken form of each language should be carefully described, diagrams being drawn when necessary to show the correct positions of the organs of speech. When the formation of each sound has been determined, the appropriate phonetic symbols should be assigned to them and passages of a conversational style should be written out in phonetic transcription. It is suggested that for the sake of uniformity the recommendations of the International Phonetic Association with regard to the use of phonetic symbols should be adopted. These recommendations will be found in a pamphlet entitled "The Principles of the International Phonetic Association" (obtainable free of charge from D Jones, University College, London W. C.). Such phonetic analysis would prove an incalculable boon both to Europeans desirous of learning to speak Indian languages and to Indians wishing to learn to speak languages of other parts of India. Besides being of assistance in connexion with the teaching and learning of foreign languages, phonetics has various other uses.

. The writer would here like to urge the

Besides being of assistance in concernion with the teaching and learning of foreign languages, phonetics has various other uses. An application which is much in vogos in England at the present time is its application to the study of the mother-toogue. In England people have the idea, rightly or wrongly, that certain forms of pronunciation are good while certain others are being that of the most educational authorities regard Cockney as being bad, and it is a fact that cannot be diagnised that a Cockney pronunciation may be a serious hindrance to a person in life. By means of phonetics, those who speak with Cockney or any other undesirable

pronunciation can learn to change their pronunciation if they wish, and adopt the form which is regarded as a better standard.

Phonetic transcription has also been used with success for the purpose of teaching children and illiterates to read. It is possible to teach an average child, at the ordinary ago at which children start reading, to read phonetic tests pretty fleently in about two months. The child who has been thus taught has a considerable advantage over other children. He is able to go on improving his mind by reading* during all the time that the other children are struggling over the inconsistencies of conventional spelling.

Of course the transition to ordinary spelling has to be made sooner or later, but practical experience has shown that this transition is not nearly so formidable as might appear to those who are onfamiliar with phonetic methods. The actual result arrived at by these who have tried the experiment is that, in the end, the children who have learned on this method actually write in ordinary spelling more correctly than those who have never seen anything but ordinary spelling?

Phonetics may also be used with advantage in connexion with the teaching of elecution.

^{*} There are numerous suitable books; see under the heading Phonetic Reading matter in the bibliography at the end of this article.

REBDY **

* See particularly V. Partington. The Transition from Fhontile to Ordinary Spaling (published by the International Phonetio Association, price 4d)

Miss Partington says (p. 1): "If the transition from the phonetic script to the ordinary preling is carefully worked out, the children who have mained on phonetic lines from the beginning invariably make better spellers in the end have been so mofortoniate set to the national on phonetic Irisal Phonetic Irisal Research (Applied Fall Research (Ap

Pronunciation varies very much with the same individual according to the rate of speaking and the oriconstances under which he is speaking. It is essential that the clocutionist should understand and study these differences, and he will find phonetics of the greatest assistance to him in this study.*

Similar considerations apply to singing The prouncestion of English used in singing differs very much even from that used in the most careful style of speaking, and still more from the prounceation used in conversation Those who learn singing generally have to acquire the sounds which are recognised as correct or desirable in good singing simply by imitating their teachers. The same results may, however, be attained much more easily and much more surely by the stady of a little phonetics.

Phonetics is further of the greatest importance to students of philology Philology 18 the science which deals with the history of spoken words Without phonetics philology is apt to degenerate into the history of written symbols. We still occasionally come across students who repeat in parrot fashion that " h became g by Verner's law ' and that " s became y in vulgar Latin' and can tell us things about 'closed e's" and "open qs" and "palatal ks' without knowing in the least what sounds are represented by these letters Such cases are now fortunately the exception Our best teachers now realize that philology must be based on phonetics Students should be able to pronounce all the sounds with which they have to deal, and should be able to draw diagrams of the

organs of speech to illustrate the principal sound changes?

In conclesion it may be well to give a few indications of the extent to which phosentics as at present being med in England, Phone tics is used not only in Universities and Training Colleges but also very widely in schools Information with regard to this will be found in the Board of Education Circular No 797 issued last summer. The appendix to this circular is particularly worthy of attention. If gives the actual time-tables and syllabuses of modern language instruction in several of the best schools.

In one of our Universities, Belfast, phonetics and the use of International Phonesis
transcription are compulsory for all students
taking French In Scotland phonesics as a
compalsory subject for all students in Training
Colleges In London the London County
Conneil recommends all the modern lauguage
teachers in its schools to become proficient in
phonesics, and provides free instruction in the
subject for them

Much other interesting information with regard to the extent to which phonetics is used will be found in a pamphlet entitled. "The Means of Training in Phonetics confiable for modern language teachers" by L. H. Althus (published by the International Phonetic Association, price 5d)

The following us list of works which may be found useful by those interested in the subject. (In those marked * the transcription of the International Phonetic Association is used Those marked † are suitable for nee with children)

See C M. Rice Voice Production with the aid of Phonetics (Cambridge, Heffer)

feg to show how the Old English yourd in words I ke white [i1] could not possibly have arrived at its modern form [a1] without passing through the value [e1]

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On the Use of Phonetics in Language Teaching. H. Sweet, Practical Study of Languages

(Dent. London, 3s. 6d.) . * O. Jespersen, How to teach a foreign langu-

age (Sonnenschein, London, 3s. 6d.) W. Rippmann, Hints on Teaching French

(Dent. London, 1s, 6d.) Phonetics of English.

D. Jones, The Pronucciation of English (Cambridge University Press, 2s. 6d.) H. Sweet, Primer of Spoken English (Oxford

University Press, 3s, 6d.)

W. Rippmann, Sounds of Spoken English (London, Dent. 1s, 6d.) † W. Rippmann, Sounds of English (London,

Dent, 1.) *† L. H. Althaus, Sounds of the Mother Ton-

gue (London University Press, 2s.) R. J. Lloyd, Northern English (Leipzig,

Teubner. 3s. 3d.) * W. Grant, The Pronunciation of English in

Scotland. (Cambridge University Press, 3s. 6d.) Phonetics of other languages.

* P. Passy, Sounds of the French Language

(Oxford University Press, 2s. 6d.) * B. Dumville, French Pronunciation (London,

Dant. 2s. 6d.) . W. Vietor, German Pronunciation (Leipzig.

Reisland, 2s.)

A. R. G. Vianna, Portugais (Leipzig, Tenbper. 4s.)

. G. Panconcelli-Calzia, Italiano (Leipzig, Teubner, 4s.)

R. Ch. Gurnier, Notes sur la Pronunciation de la Langue Maudarine (International Phonetic

Association, 1s. E. R. Edwards, La Langue Japonaise Parlée (Leipzig, Tenbner, Sr.)

Phonetic Reading Matter.

(i) Excuss. D. Jones, Phonetic Readings in English (Heidelberg, Winter, Is Ed.)

* D. Jones, Phonetic Transcriptions of English Prose (Oxford University Press, 2s.) * D. Jones, Intonation Curves (Leipzig, Tenb-

ner, 2s. 8d.)

 W. Rippman, Specimens of English (London. Dent. 1s-)

*+ G. Noel-Armfield, 100 Poems for Children (Leipzig, Tenbner, 2s.)

*+ E. R. Edwards, Transcription of Victor-Dorr Englisches Lesebuch (Leipzig, Teubner,

24. 34.) *+ H. Smith, Transcription of Shindler's Echo of Spoken English (Marburg, Elwert, 1s. 6d.)

· G. E. Fubrken, Transcription of Jespersen-Rodhe Engelsk Läsebok (Stockholm, Norstedt, 34.)

(ii) OTHER LANGUAGES.

. C. Motte. Lectures Phorétiques (Paris, Didier, 2s.)

*+ P. Passy. Choix de Lectures (Cöthen. Schulze, 10d.)

† P. Passy, Lectures Variées (Société des Traités, 33 Ros des Sts. Pères, Paris, 1s. 3d.)

*+ W. Vietor, Lesebach in Lantschrift (Leipzig, Teubner, 2 vols., 3s, each),

D. Jones and Kwing Tong Woo, Cantoness Phonetic Reader (London University Press).

Dictionaries.

· Michaelis and Jones, English Phonetic Dictionary (Hanover, Meyer).

Michaelis and Passy. Dictionnaire Phonétique Français (Hanover, Moyer, 5s.).

· W. Vietor, Deutsches Aussprachewörterbuch (Leipzig, Reisland, 12s.)

Wall Charts for Class Use.

· F. Ransch and D. Jones, Sound Charts (London, Dent, 12s. 6d. the set of 9). . D. Jones, English Speech Sounds

Les Sons du Français Do.

The Organs of Speech. Da.

(Cambridge University Press; paper Is. Cd. each ; mounted with rollers, 3r. each).

- . W. Rippmann, Sounds of English
- Les Sons de Français Do.
- Dentsche Laute na (London, Dent paper Is each mounted with

rollers, 2s 6d, each) . W Victor, Lauttafela (English, French,

German) (Marbarg, Elwert, paper 24 each, on linen 4e sach)

The names of numerous other useful books will be found in the bibliography contained in the abovementioned "Principles of the International Phonetic Association."

UNIVERSITY COLIEGE | DANIEL JONES LONDON

THE IMPERIAL GOVERNMENT ON EDUCATION INTRODUCTION

The recent Resolution of the Government of India on the subject of educational policy is bound to rank with some of the epoch making documents in the History of Indian Education If Macaulay and Lord William Bentinck are re membered as the pioneers of Western Education m India, the name of Lord Hardings will go down to posterity as that of a statesman who settled it on a wider and more organised basis Nothing has been more apparent in the work of Lord Hardings, since he took up the operous duties of the Viceroyship of India, than his strengons andeavours in the cause of educational progress The movement to start a residential University at Dacca, the practical sympathy extended to the two great national schemes of the Hindus and the Muhammadans for communal Universities, the attention bestowed on the question of the educa tion of the messes, and the special grants that have been pouring in upon the Provincial Governments from time to time, testify to it in un mistakable form.

THE FORMATION OF CHARACTER.

It must be an interesting task to examine the resolution, with a view to appreciate the new

lines of development that have been suggested to those engaged in education and estimate the value of any work that may be entered upon in such directions The most pressing of Indian edu cational needs is recognised to be the formation of character. The Government is only prepared to watch the experiments in moral aducation that are now being made in various parts of the country maintaining an attitude of strict religious It is doubtful if the Government of India is right in thinking that the tendency of the existing systems of education in India is to develop the intellectual at the expense of the moral and religious faculties. But there cannot be any besitation in subscribing to the ideal set torth by the Government, that in the forefront of their policy should be placed the formation of the character of the scholars and the under-graduates ander tuition

Allied to the question of the imparting of instruction in right conduct, is the contemplated creation of circumstances that will tend to moral purity The supply of residential accommods tion to the pupils in High Schools and Colleges is thus given a deserved prominence and the wholesome unfluence exercised on the inmates of hostels, by persons of character entrusted with the work of looking after them, will be among the most priceless benefits of the new system If has been a long recognised truth that the phys cal surroundings of any being have a striking refigence on his character, and the claims of sanitation and of general orderliness are also pressed by the Government for the same purpose It is a wholesome idea indeed that the principles of health and sanitation abould be inculcated in the pupils' mind as early as possible, and the Government has therefore wisely resolved that the work should begin even in the Elementary classes

THREE CARDINAL PRINCIPLES

After this preliminary survey of the conditions tending to improve character, the Government

gastlere.

passes on to a consideration of some cardinal question in relation to educational advancement in India. The following principles are laid down for future guidance.

- (1) The steady raising of the standard of existing institutions should not be postponed to increasing their number when the new institutions cannot be efficient without a better-trained and better-paid teaching staff.
- (2) The scheme of Primary and Secondary education for the arrange scholar should steadily, as trained teachers become available, be directed to more practical ends, e.g. by means of amoust training, gardening, out-door observations, practical teaching of Geography, school excursions, organised toma of instruction, etc.
- (3) Provision should be made for higher studies and research in India, so that the Indian students may have every facility for higher work without having to go abroad.

The first of these principles takes a note of a real danger to the cause of education, which would injure it effectively, whenever it is allowed to be guided by idealistic enthusiasts. who are lurnd by the clamour of a mere increase in numbers. Spflicient emphasis cannot be laid on the idea embodied in the second principle that the ends of Primery and Secondary education must be made more practical. One has only to ponder for a moment on our educational eystem, to see how far it is from falfilling Herbert Spencer's ideal of fitting every student for 'complete living.' Even the classes which can afford to indulge in what may be called the laxuries of education bave often regretted the want of practical elements in education. The want is rendered much keeper in the case of people who have to face the hard realities of the world immediately after leaving the class-room. The son of a merchant or a manufacturer, would hardly pick on anything that will be of special ties to him in alter-life, from the system of

education now obtaining in India and the sooner it is remedied, the better will it be for Indian education. The Government will not have to complain about the indifference of the community at large in these matters, with the same degree of vehemence and bitterness with which it does it at the present day. The third principle, of affording opportunities for research and higher study is only the necessary conclusion to the long series of efforts that have been made in this country during the last one century to introduce higher and higher classes of study. Though it must be admitted that for a long time to come the countries of the West must necessarily be in advance of Indian Universities in facilities for research, efforts must be made to raise the level here gradually, so that in course of time, education in India will not imply any stigms of inferiority, in even the most unexpossibation

RUBINISTARY RESCATION.

The possible operation of these principles in the corresponding stages of Indian Education are dealt with in the next part of the document. It is satisfactory to see the Indian Government recognise the pressing needs of Elementary Education,-it proposes, in effect, to introduce the principles of Free Education. Special solicitude is to be shown to the poorer and more backward classes. Attention must also be bestowed on some new features which are sought to be introduced. Indigenous schools of the old type are also to share in the patronege of the Gorerament. An attempt is to be made to regulate the courses of instruction in rural and urban areas, to snit the special requirements of village and town-life. Better facilities for the training of teachers, and for a periodical refreshment of their aducational experiences are other noteworthy features of the scheme. The low financial status occupied by trackers of Elementary schools in the country lee long been a disgrace to everybody concerned with them. But thanks to the preparous

and practical sympathy of the present Viceroy, there is to be an appreciable improvement. The gladdening declaration has gone forth: Trained teachers should receive not less than Rs 12 per month, special rates being given in certain areas They should be placed in a graded service and they should either be eliquble for a pension or admitted to a provident fund. The message will cheer many an unfortunate soul, toiling for the very necessities of life even when rendering to the community the valuable service of aducating its young minds Vernacular schools are also to be pressed into service, to subserve the work of expansion, and there is to be an extension of the benefits of education on a very large scale. It may not be d flicult to real se the hone 'It is the des re and hope of the Government of India to see in the not distant fature same 91 000 Primary public schools added to the 100,000 which already exist for boys and to double the 41 millions of pupils who now receive instruction in them. The claims of Female Education have not been forgotten and the Government of India draw particular attention to the necessity of making the curriculum somewhat different and more practical than that obtaining in boys schools The larger use of women teachers and the securing of continuity in control and inspection are other reforms that have been suggested

SECONDARY EDUCATION

Those who have been Sphing for a more adequate support of private secondary institutions will welcome the Government processions that in accordance with the recommendations of the Pducational Despatch of 1854 and the Education Commission of 1852, the work of Secondary Education must be left as fir as possible to private enterprise. The Grant in Advision are to the review of that such action which is recognised as necessary and conforms to the prescribed standards of musagement and efficiency obtains the special assistance which it requires no order to attain the fallest massives.

utility The claims of a complete School Final Course, freed from the domination of araminations are trged, but we do not know if it is practical to attempt the examination of individual candidates in schools by the Inspecting agency, with a trew to examine and regulate the course. The expenditure of money in that direction, for which the Government seems to be prepared will only reach in the waste of public revouses a measure which seems deshined to fail, owing a measure which seems deshined to fail, owing to its extremely impractical nature. The precitaal recommendations of the Government ser loader is seen to be only the set of them is calculated to advance the cause of Secondary Edication.

(i) To improve the few existing Government schools by (a) employing only gradatis or trained teachers; (b) introducing a gradal serrice for feachers of English with a minimum satisty of Re 40 per moeth and a maximum satisty of Re 400 per moeth (c) providing proper bostle accommendation; (d) introducing a school course complete in itself with a staff suffic ent to teach what may be called the modern side with special attention to the development of an historical and a grographical sense, (e) introducing manual training and improving science teaching

(2) To increase largely the grants nead in order that aided institutions may keep pace with the improvements in Government schools on the abovementioned lines and to encourage the eith blishment of new aided institutions where necessary.

(3) To mult ply and improve Training Colleges to that trained feachers may be available for public and private institutions

(4) To fourd Government schools in such locs littees as may, on a survey of local conditions and with doe regard to economy of educational effort and expense, be proved to require them

Trensical and Professional Enterior

Quite a number of interesting and rainable
suggestions have been made with regard to the

development of Technical and Professional Education of all kinds. The Government has undertaken an enquiry into the improvement of the conditions of technical and industrial education. It is, interesting to note that institutions of all grades relating to the class are to be remodelled, so, as to bring them as near Iodian needs and conditions as possible. It is hoped that then at least, the interest of the Indian community will be evoked and Indian capitalists will be persuaded to take advantage of the products of such training.

. Many an enthusiast of art-education in India has noticed the great gulf that exists between the artistic traditions of the nation and the exotio elements that have been introduced into the Art-Schools. It is to be bridged and an effort is to be made to combine Indian treatment of subjects with Western technique, though the Government proposes for the present, to take on hand the first step in the reform, namely, of preserving for, and in India, scientifically arranged collections of the products of its ancient and modern arts and craits. Even the officialdom of India has come to realise that the understanding and appreciation of Eastern art-work in Europe and America is draining away from the country good specimens in an increasing volume into the public collections of those continents. Somewhat allied to this, is the proposed attempt to start an ethnographic museum at Delhi, designed to illustrate Indian civilisation in all its phases.

It is probably not possible to congratalate the Government of India on the attitude of complacency with regard to some other departments of technical and professional training, like adeation in Agriculture, Forestry and Vaterinary Science. Bot as it is not very long since there was an instalment of reform in these directions, it may not be desirable to urge the need for further improvements immediately.

The strongthening of the Medical Institutions that exist at present and the opening of a School XIX of Tropical Medicine are some of the reforms contemplated in the teaching of medicine. The narrow basic Indian (Society has unfortunately prevented the female section from taking the fullest benefit of the medical treatment available in the country and the Government has wisely resolved to pay special attention to the training of a large number of suress and lady doctors. . . .

In spite of the large amount of fees accraing from students in Law Colleges, there has till now not been no adequate attention bestowed on them. It is now proposed to continue the recent policy of concentration and improvement which has resulted in such great benefits in Bengal. Suitable arrangements are also to be made for the residence and guidance of Law students—the pressing necessity for it will be patent when the period in life associated with a Law student is often some consideration.

To those who have watched the recent history of Indian Universities, it must be patent that commercial education is receiving recognition in high scademical quarters. The Bombay University has opened a Faculty of Commerce, and there was an attempt in our Presidency for following in her footsteps. In response to a need which is thus swident in various parts of the country, the Government has sacctioned the establishment of a Commercial College of an advanced character in Bombay, and are even contemplating a scheme for the organised study of the economic and allied accidence in the contemplating as the contemplating and the contemplating as the contempla

Teaching Colleges, dealt with in another part of the resolution are also to be strengthened and increased in number. The interchange of ideas between province and province, on the subject of the training of teachers and the encouragement of farlough studies, are two engestions which are as practical as they are valuable.

University Education,

The desire on the part of the Government to make University Education in India as modern and efficient as possible, must be patent to all who have had the privilege of reading the recent report of Dacca University Committee The new features contemplated in that scheme are to find expression in various decrees, in other provinces and in the existing Universities, There te to be a multiplication of Universities and in every one of them an attempt is to be made to develop corporate life, and to train up young men whom the country will be proud to ac knowledge as its citizens If the Government of India has not thought fit to deal more exhaust avely with the subject, it is probably because of the Vicerov e personal pronouncements that have been made already, and of the numerous opportu nities that will soon be formaked for the treatment of the subject

EDUCATION OF SPECIAL CLASSES.

The Government has all along been antious to show particular consideration to minorities as well as important classes In accordance with that policy the Chiefs' Golleges are to be improved, by a revision of their coarses, so as to make thum more useful, and higher in intellectial standards, and by a strengthening of their staff. The allowance of special encoessors to achools for the dominical community is another plank in the programme of educational reform There is satisfaction expressed at the recent awakung of Michammadans for the educational needs of the community and they are to meet with the liberal encouragement which they have received in the past.

OBIENTAL AND FOREIGN EDUCATION

The institution of an Oriental College of an advanced character at Desia has long liven in the axis, and a definite pronouncement has now been in the made about it. In addition to the facilities thus provided at a central place in India, encouragement is to be given to Oriental Stad as throughout the country by large grants to indigenous Oriental resistances, the approximent of eps.

cally qualified Inspectors to supervise their work, the provision of posts for highly trained Pandits and Maulvis and grants of moneyresearche for Oriented work

While appreciating the Government's anxiety for the moral welfare of the youths sent to England for educational purposes, it is difficult to agree with its opinion, that the institution has been a failure on the whole Nor will there be apy approval from right thinking men in the country of the scheme of the establishment of a school in the country, staffed entirely by Europeans. We do not see any special need that the institute can serve, nor do we desire in the least to see such an implied perpetuation of the alleged inferiority of the training offered by Indian teachers The true solution of the educational problem in this direction, consists, not in the creation of wholesale European metitations in the country, but in bestowing upon Indians the training and experience necessary for such superior work

THE EDUCATIONAL AGENCY

If a benevolent measure of reform has been suggested, in the revision and expansion of declassional courses and institutions in the country, the Government has not forgotten the meed for having the agency fitted for such a task. The improvement of the educational services, Iedan and European, has been thought of, and arrangements are also to be made for the general uprovement of the educational agency. The approntunent of expert, the provided meetings of the Directors of Pable Instruction of various provinces are other interesting fixtures of this pass, work of organization.

CONTINUE

Ecough has probably been said with regard to the details of the scheme, to demonstrate the wasdom and far reaching character of the principles expounded by the Government. There could probably be on hesitation in the circumstances, in boping that the 'Vinceroy's appsal to the Indian public will be responded to in a spirit worthy of the great occasion and the responsibility devolving upon every true son of India :

"The Governor-General in Council trusts that the growing section of the Indian public which is interested in education will join in establishing under the guidance and with the help of Government those quickening systems of education on which the best minds in India are now converging and on which the prospects of the rising generation depend. He appeals with confidence to wealthy citizens throughout India to give of their abundance to the cause of education; in the foundation of scholarships, the building of hostels, schools, colleges, laboratories, gymnasis, swimming baths, the provision of play-grounds and other structural improvements, in furthering the cause of modern scientific studies and especially of technical education, in gifts of prizes and equipment, the endowment of chairs and fellowships and the provision for research of every kind. There is a wide field and a noble opportunity for the exercise on modern lines of that charity and benevolence for which India has been renowned from accient times." P. SESHADEL

____ THE TEACHING OF ENGLISH IN PUBLIC SCHOOLS.

Objects of English Education in India .-"The purpose in learning foreign languages," says Otto Jespersen, " must be in order to get a way of communication with places which our native tongue cannot reach," and to have "access to the best thoughts and institutions of a foreign nation, its literature, culture—in short the spirit of the nation in the widest sense of the word." The former is a utilitarian object, while the latter is an intellectual one. In Germany, according to the

authority of Mr. Sharp, the object with which English is studied is parely utilitarian. He says that the Germans have little symnathy for English Literature and that they learn English by the shortest cut in order to make their conditions of trade easy." and to equip the German business-man with the necessary command of the language. For this purpose the German requires a command only in speaking colloquial English. This gave rise in Germany to the adoption of the New Method or the Direct Method, as it is called.

It was Victor that first emphasized the necessity of revolutionising the methods of teaching English in Germany. In Holland and in Belgium also the object with which English is studied is utilitarian. Again, the Germans, the Belgians and the Dutch take un English only for certain purposes and do not learn English with the objects and for the purposes that we have in view in learning English in this country. Here English education was intended as a means to create a section of people who should form "the channel through which Western ideas should be conveyed to India," and to create a class of mediators between Government and the people. It was not for purposes of international communication or trade that we began to learn English. We did not, like the Germans and others, feel the need for English when we took to it. When the Government of India became British, a need was felt to educate the Indians in English for more or less administrative purposes. To conduct the Government of England in this country with ease and cheaply, it was necessary for the rulers to create a section of educated Indians. We took to English, therefore, for certain practical purposes, which, in their nature, were different from those of the Germans and the Datch This is one side of the question I shall now turn to the other side of the question.

I shall now turn to the other side of the question The Oriental mind is mainly spiritual, while the occidental is mainly material The orthography of our languages, the thought content of our literature, the needs of our nation are all different from those of the English But we have come under the influence of the British Government and having had access, through their language and literature, to their vast stores of knowledge, it is not possible for us to go back now and say, 'we shall have nothing to do with English,' how strange and unailied it may be to our own languages and litera tures Our purpose in learning English is only partly utilitarian We have also in view the other and more important purpose of getting "access to the best thoughts and institutions" of the British nation, its literature, culture and spirit We want to add to our stock anything that may be useful in the stock of the British Our nation has a long history behind it Our literature is vast. But it requires to be added to, in order that it may become modern. Our thoughts are traditional Something new has to be added to them, so that we may move with the times Our object in learning English is not to displace or disavow our ancient language and lore, but to improve them and bring them up to the level of modern needs Luglish people have got almost all our literature translated upto Euglish Thus they have got access to all that is good and useful in our ancient literature; while, we have not ancceeded in adding to our ancient literature much of the foreign that is good and useful for our purposes. One difficulty here is of

course the fact that our vocabularies are limited. But nothing is limited, if our will is not limited. If India should ever be great among the nations of the world, she should have a literature in no way behind the requirements of modern times.

Whatever we may have done in the line of improving our stock of literature and whatever we may still hope to do, it cannot be denied, for our purposes here, that we require special training in the art of Translation. Every one of us knows full well that, under the present system of education, we can trans late any vernacular or Sanskrit passage more easily and more aptly into English than we can do the reverse process. Our know ledge of English is more perfect and more systematic than our knowledge of the vernaculars In order to translate into accurate vernacular, a passage in English, we require an accurate knowledge of the vernacular and of English We do not translate word into word, but thought into thought We should feel the thought underneath a passage in English in order to put it into accurate vernacular language We must also know how to attain accuracy of expression in the vernacular Does it show that we have no command of English or no command of our own mother tongue? For our purposes, we need, not so much of colloquial English, as the Germans and the Datch require, but a mastery of literary English. But then we should also have fluency of expression in speaking should use our knowledge of English for translating the best thoughts expressed in English by able thinkers into our vernaculars and for enriching our stores.

For trade we have enough English already. For communication, we have enough of it too For mediation between Government and the people, we have snough and more of it too We do now require a good command of English for other and more important purposes We should enrich our stores, we should add to our literature and science, we must modernise our language and hierafure

This is why I have not been able to under stand the use of the adoption of the direct method of teaching English in this country, as it is understood in other countries. On the other hand it will be more useful for us to pay special attention now to a thorough and masterly study of our vernaculars and of our national tongue, ur., Sanskrit I fis o see to adopt the direct method of teaching English or not? It would look as if my remarks above answer the question in the negative Bat I have also an affirmative answer to the direct method of teaching the seed of the se

The Direct Method - Liet me first enganciate the principles on which the direct method of teaching English is based and consider the ends it has in view "The Direct Method," says the writer on the Teaching of Languages in Belgium, " consists in utilizing all available time in the study of the foreign language, instead of spending a large portion on the mother tongue" The direct method seeks "to attain in one year all that has hitherto been acquired in three years of English instruction" For this purpose, the method is intended to "make the pupil at home in the foreign language" through the medium of "actual speech," and through the disuse of the mother tongue, except where it leads to the quickest comprehension of the foreign tongue Thus we find that three points are stressed on here, rur, the time needed for learning the foreign tongue, the command over the foreign language, and the purpose of

translation into the mother tongue of the

Advocates of the direct method freely say that a child of 3 or 4 years of age should be immersed at once in English surroundings and should be taught English, as if it were its mother tongue. Greater denationalisation than this we cannot imagine This false view of the method strikes at the root of our existence The words of Mr Nelson France on this point are well worth noting "I have not adopted,' says he, "the view of some reformers that as soon as the pupil begins a foreign language he should be plunged into foreign surroundings It appears to me, on the contrary, that, while the initial difficulties of the new tongue are being surmounted, the matter should be familiar, and the pupils should work under the impression that what they are learning would be useful in dealing in situations which they can readily imagine." Add to these words, the equally important remarks of Mr Yates in his recent book on the Teaching of English by the Direct method He says. There is of course the difference in thought-content between their vernaculars and English, a difference which is not so marked in the case of French or German and English For continental boys have a share in European civilisation, and are acquainted with many of the climatic and other phenomena known to English boys. Snow and frost," says he, 'for instance, are no stranpers to them, whereas South Indian boys can have, as a rule, no conception of these things" Such being the fundamental difference between the Indian boy and the English boy, how can we sensibly plunge our boys at 4 or 5 in foreign surroundings? Is it possible? Is it destrable?

If, then, we should have the boy acquainted

with his own familiar surroundings with consciousness enough to interpret and feel them in a foreign language, how can we try the method upon a child of 4 or 5 ? That the child at 4 or 5 speaks in its vernacular familiarly of all things it sees, is not due to training, but to mitation and instinct. How can a similar training be given to the child in English at that age? Is that ever to be imagined? Can an English child of 4 speak to any extent in Tamil or Telugu, however much we may try to train it? Even if it can, is it desirable to wreck the child's brain in this somersault? After experience, Mr Nelson Fraser says that "the direct method is not intended for and is not suitable for the nursery. "It presupposes," he says, "that boys have already learned in their mothertongue how to handle language with conscrous intention and are capable of following explanations in this tongue" He fixes the age at 10 or 11 (after personal experience and on the authority of German practice), when the foreign language is taught to a boy. This, while not putting a needless strain on the child's brain, gives a place to the verpacular and simplifies the corriculum, making education more substantial and more useful, than it would otherwise be. The preservation of vernaculars, the encouragement of the study of Sanskrit, our common mothertorgue, the improvement of our languages and of our literatures ought to be our main object in education.

Early education of the child in its mothertorque and in Sanskrit —For the purpose, the child should first sequire a thorough knowledge of its mother-torque and of Sanskrit and then an accurate and equally thorough knowledge of Eoghab. The Indian child is usually sent to school at 5. Some of

our modern reformers, following the psychology of European children, hold that our children also should not be sent to school till 7. Our children, owing to climatic and other ressons, are quite developed at 5 and they will surely be spoiled if two years are allowed to them to play when they ought to learn the elements of their mother-tongue. Between three and five, the Indian child should be taught to observe things, name them and distinguish them. Our Kindergarten system is not quite systematised. It will be well for us to study the systems of Freebel and others and to systematise our Kundergarten If parents cannot take the trouble of learning the elements of Kindergarten and educate the senses of their children, it will be well if a few people in each village are trained in the Kindergarten system and employed for the early training of children. The best thing, however, is for the mothers to be trained systematically in Kindergarten and to take up the early training of their children into their own hands None is greater to the child at 3, than its own mother. She can work wonders gnon the child

At five, it is time for the child's education, to be taken up by the father or by a guru or schoolnaster, referrably by the former. The child now becomes in a way conscious of itself and its surroundings. The father is the first man to whom it feels attachment, after its mother. It is the business of the father to begin the tacking of the challenge with the section of the mother though a start child.

Method,—Our time-honoured method is to begin with the alphabet. The child is made to trace each letter on sand or on a rough surface, to name it and to write it. As there is no difference between pronouncation and spelling in our languages, we find no difficulty in adopting this method. As the child's surroundings consist of familiar objects, we find no difficulty in acquainting the child with all its surroundings in a short time-The child is soon able, by instinct, imitation and training, to interpret objects consciously. At this stage, after sufficient oral and written training in the elements of its mother-tongue, the child may be sent to a regular public school, say at the age of seven. Now the child should come under the supervision of a trained teacher and into the company of other children. The child should now, for 3 or 4 years, be led on in its further studies and should be disciplined under strict supervision. Every movement of the child should be watched and guided by the teacher. The teacher should be a man of sterling worth and perfect character. He should love every child, whatever may be its frailties and however dull it may be. He should be all sympathy. Under the guidance of such a teacher, the child should learn systematically all the subjects of the curriculum in their outlines. The concentric plan of instruction should be followed. The child already knows the elements of its own language. The child is acquainted with its surroundings and has its power of observation developed. On this material the teacher should now work, and through conversation and observation lessons prepared by himself to suit his pupils and his aims, and not through manufactured booklets of cut and dried lessons, he should impart instruction in all useful subjects, such as Geography, History, and even Science. The child should also have a good training in practical Arithmetic and in Drawing. The . physical, moral and above all, religious education of children should be carefully

provided for. The child abould also be acquainted with Sanskrit, In passing, I mught perhaps state that in teaching Sanskrit, the direct method may be very advantageously adopted. The usual method of teaching Sanskrit is not an aniable at the present day, for it is not the only language to be learnt and it also takes away much time and cergy. It was adopted in times when one was able and was prepared to spend his whole day in learning the language and its essentially religious literature.

Such should be the training given to a child up to the spe of 9. At this age the child is no more a child with an untrained head or hand, but is a boy with his head and hands systematically trained to observe, think, feel and do.

Beginnings of English: (1) Age.—This is the stage when the teaching of English may be began. The boy at 9, trained in handling language with conscious intention and trained to think in his mother-tongue, is now fit to learn the foreign tongue by the shortest route.

(2) Uss of Translation .- "The first condition for good instruction in foreign languages," says Jespersen, "would seem to be to give the pupil as much as possible to do with and in the foreign language; he must be steeped in it, not only get a sprinkling of it now and then; he must be ducked down in it and get to feel as if he were in his own element, so that he may at last disport himself in it as an able awimmer." In order that this end may be attained, the first and the most important thing to do is, according to all the advocates of the method, to avoid translation, i.e. to avoid the use of the mother-tongue in teaching the foreign language. Mr. Yates says that "the intervention of a vernacular medium postpones the period when the student can speak without consciously translating from his native speech into the foreign language" Mr Yates's reason then for avoiding translation is the sparing of time. But he does seem to feel that the boy cannot but unconsciously trans late ideas into and from his vernacular lauguage Otto Jespersen starts with the view that ' it is not translation (or skill in translation) that we are aiming at in teaching foreign languages," and so naturally he has no place for translation in the teaching of a foreign language German reformers, like Walter and others, whose object was to equip the Germans with a good and quick com mand of English for business purposes, find no need for translation, in order to spare time Mr Nelson Fraser, on the other hand, says that, " when the vernacular is the short est path to our end, we must take it" and that "it is chimerical to think of excluding it from early lessons " For a boy of 9, with a good and more or less perfect previous knowledge of the outlines of every subject in his vernacular will it not be little short of absurd to begin with naming objects in Eng hab and asking the boy to observe ' the school room and its tenant objects." If Mr Yates desires this to be done in English for a child of 4 or 5, why should not that little child learn these things in its mother tongue at 4 or 5, and translate these into English at 9? Will not the work of the teacher and the boy be made easier if the boy's brain is ploughed and manured with familiar things and sights, before it is sown with the exoting seed? The easiest method then seems to me to be to acquaint the boy of 9 at once with the foreign language in relation to his mothertongue But at a later stage, when the boy

has got a comparatively good grounding in the foreign language, he may be asked consciously to avoid translation and to express himself and work only in English in the English classes According to the concentric plan, higher teaching of the advanced portions of all subjects of instruction might be through the medium of English and vernacelar first and of English alone very soon & as far as the subject of translation is concern ed, I am against its exclusion at the earlier stages, but I am strongly against it at the later stages, say after the boy has reached the age of 13 The boy after 13 should not bo allowed to speak to his teachers in the vernacular and if possible, at home also for some years. But it must be remembered that, even when the boy is steeped in English and asked to deal only in English, special hours must be set apart for conscious and literary translation of English into the vernacular as well as into Sanskrit and vice versa The art of translation should be consciously taught. In this view I share with Mr Nelson Fraser,

Having now disposed of the age question and the translation question, having tried to prove how the adoption of the direct method is suited only for a boy of 9, and having abown the position that translation should occupy in the teaching of English in the country and for our purposes, I shall now proceed to the other points of the direct mathed

(3) Une of observation.—But before leaving the subject of translation in the teaching of English, I must refer to one or two points. My words above sight seem to lay all stress on translation and to forget the importance of observation which is proposed by the advocates of the direct method as a substitute for translation. I do strongly support the

view that teaching not only of English but also of all lauguages and subjects hitherto has been wanting in the element of training the pupils to observe and draw conclusions for themselves; and I do strongly also hold that if our boys should turn their lives to any purpose in these hard days, they should be taught more through the eye and the ear than they have hitherto been. I do not overlook the importance and value of pictures and other materials in the teaching of English as well as of other subjects in the curriculum. What I mean by my stress on translation is that wa, in India, cannot sacrifice our real purpose to a little seeming case and possibility of teaching English to our children on the lines proposed by the strong advocates of the direct method.

Now, I shall proceed to the other points of the meshod. The points that seem to me to be of the greatest importance for our notice and practice deal with the teaching of correct sounds and the teaching of grammar along sound and intelligent lines.

. (4) The Gouin method.—I said that our boys should begin English at 9 parse of age, after they have been equipped with the necessary material of thought, for easily and consciously interpreting the genius of a foreign language. How then should the boy of 9 now be taught English? The best method for teaching a foreign language at this stage is that known as the Gouin method.

The boy is already able to think for himself and express his ideas in his maken-languar. The teacher, according to this method, first explains in the verascular that he is going to describe certain actions, which he would put on the black-board. He names the actions in the verascular and asks the pupils to recall them in their minds. The power of

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reflection is thus developed in the boys. The matter is based on the pupils' previous know-ledge. Imagination is developed in this process of recollection. There is also unity in the teaching as the teacher has to place the matter as a process, not in the form of unconnected words. When the teacher has done this preliminary work, he now abandons the vernacelar and relates the action in English. The pupils repeat the English. The pupils repeat the English. The pupils repeat the English then written out on the black-board. The teacher employs the method of coversation freely. This is the way that a foreign language

is taught according to this method. The boy need not have a previous knowledge of the alphabet. We may conveniently adopt the "Look and say method" for teaching the alphabet. The sentence might be written on the black-board. The boy knows its meaning and its import in the light of the previous explanation. Not only the visual nicture of the sentence, but also the mental image involved in it is before the pupil. Now the boy might be asked to analyse the thought and break up the sentence. The sentence might be consciously broken up by the boy in the first instance into word-sounds and letter-sounds. I am not for the boy now writing the letters or words. It will be enough if he can give out the sounds. The teacher must take great care to make each boy pronounce each letter and word . correctly.

(5) Kounds and serial.—At this point I might perhaps deal with the question of pronunciation at a little length. I cannot agree with those that say that boys should be taught sounds as sounds and made to exhibit phonetic experiments. Nor can I agree with reformers like Jaspersea and

Walter, who want the boys to master a phonetic script and then master a natural script. The boy need not learn any script. but the natural one, for it is the only one that is useful. Even here the first script they ought to be acqueented with is the printed one and that for purposes of reading The teacher should be properly trained in the correct propunciation of English soulds and should also know the reasons for the differ ence between the pronunciation and the spelling historically The teacher should be a well read man with full resources and ready It is not descrable to entrust the first teaching of language to a trained Lower Secondary or Primary man Correct sounds must be fixed in the boy's head by mere repetition and imitation The boy need not know, for instance, that the sound of f requires the upper teeth to be put against the lower lip and the air allowed to rustle through the narrow opening, and that f is unvoiced, while v is voiced The teacher should sound f, the boy must imitate him and say f If the boy should pronounce the word "father," the teacher should utter the word and the boy should imitate him. The teacher should pronounce each word and letter slowly, distinctly and firmly

Jespersen says that Walter is "emphatically of the opinion that in class instruction phonetical transcription is much to be preferred to purely oral instruction because the latter wastes an enormous amount of time, and the teacher cannot feel nearly so sure that the whole class is able to follow". Indeed Mr Walter's arguments are strong and reasonable. But is not the teaching of one script and the displacing of it by moother in a short time likely to confuse the little boys? Who is settled as yet on one script as being the correctest or the simplest? Th best thing will be for us to keep our existing spelling, as long as all literature is writte in that spelling, whatever may be its defect and to make the boys learn the sounds by mere practice. The teacher in India migh with very great and special advantage us the vernacular sounds for comparison and impressiveness. This method of teaching pronunciation is, in my opinion, certainly more easy and more useful than the adoption of learned scripts and phonetic explanation of sounds Later on when the boy has to write down letters, after a good training in sounds and in conversation, he might be taught the impositio values of the letters through actual words Jespersen mentions four ways in which

at as possible to communicate the material of a foreign language to pupils (1) the teacher may not let the boys use and writing at all, but give them everything orally, (2) he may give them the orthography alone, (3) he may give them or lography and phonetical transcription | gether, (4) he may give the phortcand transcription alone After considerated A the four ways, Jespersen inclines to theg but way and prefers "to let beginners bed a ployed only with phonetical transcription his before they pass on to seeing some time the words in their orthographical shape too" For my own part, I would prefer the first of these four ways in the first stage, the second way being adopted at a later stage At a still later stage, the phonetic symbols may be learnt by the boys with the historical reasons for the deviation between the orthodox spelling and the true pronunciation. The elaborate rules that are given for the teaching of Phonetics to young children, by Mr.

eYates, Mr. Nelson Fraser and others may well be learnt with advantage by the teacher and not by the boy.

Method continued .- To take up the thread of my essay, the boy should first be taught to express ideas in sentences, then to break them up into words and sounds. Boys may also be asked to break up the sentences logically and led to a knowledge of the grammatical construction of the sentences, Through a comparison of sounds with aymbols, they may slowly be led to learn the written forms. When boys are able to wield the foreign language in simple forms, they might be engaged in light conversations, which should be so graduated as to train the boy in the interpretation and construction of sentences. Oral composition and decomposition of ideas might be taught by means of praduated lessons. In all this course of instruction, the concentric plan should be adopted and the lessons should slowly progress and widen out the sphere of the boy's knowledge. At this stage of teaching the foreign language, care should be taken to see that the boy is given no lesson to prepare at home. He should do all the work in the presence of and under the guidance of the teacher. Every day the boy should be made to feel his progress consciously. Lessons, conversations, composition should all be conducted orally at the first stage. The boys should slowly learn to write the words and sentences and to frame sentences to express . familiar ideas. Care should be taken to see that boys do not get word-pictures into their heads and that boys do not mutter isolated words. In this respect, I am sorry that the first lessons in Mr. Yates's book are not quite suited for teaching according to this method. Care should also be taken to see that conversation lessons are not indulged in to an undue extent, but that composition and reflection on the part of boys are encouraged at every point.

(6) Grammar .- Through conversation and composition, grammatical relationships should be taught. Boys need not be told of the rules. Grammatical relationships in the verpacular languages may be used for comparison whenever and wherever practicable and useful. The lessons given in the beautiful books of Mr. Yates and of Mr. Nelson Fraser indicate clearly the way in which grammar might be taught without much conscious effort on the part of the boy to manufacture sentences to answer the needs of grammatical rules and exceptions to rules and exceptions to exceptions. Jespersen says, "Theoretical grammar ought not to be taken up too early. and when it is taken up it is not well to do it in such a way that the pupil is given readymade paradigms and rules. After the manner of Spencer's "Inventional Geometry," where the pupil is all the way through led to find out the propositions and proofs for himself, we ought to get an Inventional Grammar." That is, grammar should be taught inductively and not deductively, as it has hitherto been done. If the boy is sufficiently advanced, he might be allowed to use a grammar book. But then, as Jespersen says, "to go through the grammar from one end to the other, a section at a time, ought not to be undertaken until most of the phenomena have been treated in connection with the reading," Even when grammar is so taught at a later stage. I strongly believe that the text-book or at any rate a connected passage in a Reading Book should be made the medium of instruction in grammar. At this stage also, when the boy

is sufficiently advanced, standard books in prose and poetry or lengthy extracts from these should be placed in the hands of the boys, and they should be trained to annrecrate the thought and to mutate the style of the authors Even up to the Matriculation standard now, boys read only broken meses of non literary scraps mostly, so that they do not form any style and do not even appreciate styla.

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Conclusion -I believe I have said enough But before closing my essay, I feel bound to make mention of one or two things in particular, for the way in which we are disposed towards these points settles all the manner in which any successful work can be done either in the teaching of English or in the teaching of any other language or subject.

(i) The boden of examinations - hirstly. I should state that the one thing which stands in the way of any successful work in the school room is the boger of examination. No method can be adopted with prospects of success or with efficiency as long as we are afraid of examinations. I feel that no teacher can use the direct method or any good method of teaching English, unless he is free from that constant fear of examination, which makes him adapt his work to a fixed and crowded carriculum from time to time At least in the early years of teaching English, the teacher should entirely reglect examinations and should teach children with the sole am of making them talk fluently and correctly. read with ease and thoroughness, and write in neat, sumple and correct Logish The teacher should make his every day's lesson. an examination of the previous knowledge of the child, and a clear, slow and sure presentation of new matter closely allied to the old. however little that is new he may be able to present in a day The teacher should see that whatever is done by the boy is thorough and should not skip over things merely to see the

end (ii) The Teacher has duties -How can a teacher do this honestly and satisfactorily unless the teacher himself is a perfect undividual, conscious of his duty and consists. tions in the discharge of his duty? One objection that is brought forward against the adoption of all novel departures in teaching any subject, not merely English, is that the teacher is not always what he ought to be The teacher must be a man of vast resources, ready wit, and quick sympathy with children in all the situations in which they may be found The teacher should, above all, be a man of character, for nothing influences character like character

N K. VENKATESAN.

TEACHERS IN COUNCIL Athor PROBLEM OF THE PRIMERY SCHOOL OF OTABO

Some 2,000 delegates attended the 44 pation | W Conference of the National Union of photomore which opened at Waston Soper-Mare elderino will 24:--

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He said that the educations papered shape too" organization might be summari) prefer the first of of opportunity for all regardles at age, the second or social status.' That was later stage the State had not as yet recognetic symbols may be nearly half a century had gone the bistorical resof 1870 was passed, there was ween the orthodox of prejudice and class exclusivonunciation. The the echools of the rich from thren for the teach That gulf existed in spits of the children, by Mr. carried out by many public spirited Minusters, and until it was finally bridged no permanent and attainatory settlement of their educational problems could be hoped for. The public school spirit had, almost from time immemorial, been landed as the foundation of their national greatness. If that were so, then it was the duty of their statesmen to afford every child in the country an opportunity of coming under their finence of that spirit, and class favourities should not holek the way. They could not accept Herbert Spencer's axiom that every individual was entitled to "life, liberty, and the perzent of happiness" and yet deep equality of opportunity in aducation

REMEN OF THE PRIMARY SCHOOL

To secure that equality of opportunity they must first concentrate their attention on the Primary schools and reform their conditions throughout, for until that task was accomplished there could be little or no hope of solid sducetional progress Many ardent educationists whose sincerity and zeal were undequable, took gre for granted that the primary school system know working very well and focused their minds foreign yednoatron was not on a sound basis, and that the world be until its administration was so home led that the conditions in the primary presence of as good as those subs secondary teacher Every that had been achieved the rest to feed his pro would be comparatively easy. conversations, corn the Primary schools militated ducked crally at/s a large proportion of the thould slowly larse schools would be unable to intences and tet possible system of higher edu lamiliar ideas. small minority would be capable that boys do not sindier, and the class monothat boys do not status and the Univer-beads and that that years schools and the Univer-words. In this ore firmly established than ever, first lessons in frimary schools must come first, souled for the before them must be the suited for teac their conditions to those of the Care should a

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REFORM OF THE PRIMARY SCHOOL.

To secure that equality of opportunity they must first concentrate their attention on the Primary schools and reform their conditions throughout, for until that task was accomplished there could be little or no hope of solid educational progress. Many ardent educationists whose sincerity and zeal were undeniable, took · it for granted that the primary school system was working very well and focussed their minds Jon Secondary and University education. But - primary education was not on a sound basis, and - never would be until its administration was so · organized that the conditions in the primary schools were as good as those inhe secondary schools. When that had been achieved the rest of the campaign would be comparatively easy. If the conditions in the Primary schools militated " alest efficiency, a large proportion of the shouldren in those schools would be unable to seprofit by the best possible system of higher eduf cation. Only a small minority would be capable of extending their studies, and the class mono-. poly of the Secondary schools and the Universities would be more firmly established than ever. · Reform of the Primary schools must come first. -and the ideal to keep before them must be the Cars and ap of their conditions to those of the

Secondary schools. Even in the matter of school buildings the spirit of class prejudice stepped in. The Secondary school children must according to the Government regulations, have more airspace than Primary school brothers and sisters. though the home surroundings of the latter in many cases would seem to call for a complete reversal of the position. Of more importance than the buildings were the arrangements for carrying on the practical educational work and here the disparity between the two classes of schools was even more pronounced and more productive of evil results. The pupils in the Secondary schools must be taught in every case · by fully qualified teachers, but little more than balf of the staff of the Primary schools could be so described. Elaborate and in many respects admirable regulations had been drawn up for the training of Primary school teachers. Yet having obtained its qualified practitioners the State restricted their sphere of usefulness. They were forbidden to cross the sacred portals of the Secondary school but a host of unqualified or partially qualified men and women was sent to compete with them in the Primary schools. Any attempt to stereotype the grade of uncertificated teachers was not only to be deprecated but deserved the most unsparing condemnation from those who claimed to be educationists. ' Uncertificated teachers had been allowed and encouraged to remain unqualified and their continuance in the Primary schools was one more proof that they were still very far from the idea of equality of opportunity for all in education. The State which had led them that blind alley could not in justice dismiss them, since time had in some measure given the experience which made for efficiency. Ou the other hand, the interests of the children demanded that the grade should eventually become extinct, and that in all future appointments only certificated Assistants should count as effective members of the staff. The principle would then be established that both in Primary and Secondary echools fully qualified teachers only should be responsible for the work of educating. And end would thus be put once and for all to the employment of those non descript anachronisms known as supplementary bachers. Their existence was a national disgrace and a forther insulit to the workers whose children were condemned to these tender marciae. Their introduction into the Primary schools could only be justified on the supposition that the pupils in those institutions were marked with a propositional brand of inferrority.

A STATEM OF "HUSTLING"

In the size of classes there was still a great gap between the worker and the plutocrat Thirty or 35 pupils grouped for teaching were considered a full class in a Secondary school, but in the Primary school 60 was the recognized number, although no teacher, however capable, could educate or attempt to develop the individual faculties of 60 children So long as classes of that size were possible so long would the work of the Primary schools fall short of the ideal which should be the sim of all educationists. The efforts made by various education authorities to realize the ideal of equality of opportunity were deserving of ungradging commendation, but progress was by no means general and, in many quarters the reactionaries were decidedly in the ascendant. Under the plan emphemetic ally designated as " making the classes fit the room," children were being subject to a system of the most brutal and cold blood " bestling" They were driven out of the infants' school at the earliest possible age and in all departments frequent reclassification had become the order of the day. If a child needed 12 months' train ang in a certain class, and in order to " make the classes fit the room" received only six, or three or less the result was a foregone conclusion Children's lives were becoming a burden and their future ruined by that system. Were teachers free from blame? It was true that they had protested against the system and their protests

had been ignored. But unless they did something more than protest the plan of compulsion would not avail them very much in the day of reckning. If they conside at the run of the children, they must accept the responsibility or such considerable. They could await with confidence the verdict of the nation on the teachers or the organization who refused to sacrifice the child to the Moloch of the Fathing Rate.

RUBAL CONDITIONS.

Tribute must be paid to the ladies and gentlemen who served on the Education Committees of the administrative counties, for the spirit of class prejudice was more vigorous and more widespread in the country than in the town There the child of the agricultural labours was in many quarters looked upon as a veritable Gibeonite, fit only to be a hewer of wood and drawer of water. They could not ignore the fact that in the country districts there was a section which detested the Act of 1870 and straved to make edu cational administration as difficult and unsatis factory as possible So infinential was this section that when, for example it was proposed to put an end to the imagnities of the half time system its members had to be placeted by allowing the country child to leave school a year before his town brothers and sisters. It was true that "beneficial employment" was insisted upon as a condition of exemption, but experience in town and country alike had shown them what fatally elastic phrase "beneficial employment" was The State had a bad record with regard to the rural schools. Those schools were necessarily small, but they contained children of all ages from five to 14, who had a right to the best training the State could provide, and to that end they must be under the care of skilled teachers. The more molated the home the greater was this need, but the State had so far taken exactly the opposits view and had sanctioned the appoint ment of imperfectly-qualified people as head teachers of very small exhols. The continued existence of those uncertificated head teachers was a scatching indictment of our class system of education. The rural areas simply swarmed with that interesting type of pedegogue, the supplementary teacher. The vagaries of some of them would be amaking if it were not for the tragedy in the back-ground—the tragedy of highted child life, the starvation of latent powers, and, above all, the last to the nation involved in impovernished and iosfficient education.

EDUCATION IN THE WAST COUNTRY.

He feared that in eductional matters the West Country sadly belied its glorious past. Great traditions carried with them great responsibilities, and the country of Alfred and Danstan should look to its educational laurels. If agriculture was to be permanently revived, those engaged on it must have their faculties developed. not narrowed, and their characters monided by the training which an intelligent teacher alone could give. That training should be as free to the labourer as to the farmer or his landlord. A. sound general education should be given, and then those who desired it should be allowed the opportunity of finishing their course at an agricultural college. So far as the West Country was concerned, he was confident that the local education Committees would welcome a popular demand for equality of opportunity. When they received the necessary support from public opinion it would not be long before the West Country would retrieve its lost reputation.

While some areas, like Lindsey and Radoor, attend their schools and received twice their local contribution from an appreciative and grateful State, they saw, on the other hand, authorities striving to keep their schools efficient and being told that they must not expect from the Imperial revenue more than one-third of what had already been expended from the rates. Such methods would disgratee even the philosophers of Leptate or the Wise Men of Gottlam and now that

whispers of coming reforms were rife they must insist that the first step should be to deal with Lindsey and Radnor and their imitators according to their deserts, and reward other authorities in proportion to their good works and their ideals. Every edecationist should make the improved stifling of the Primary schools the first object of increased Government grants. When that had been accomplished the problem of the further development of Secondary, Technical, and University advention could be faced with a surer prospect of success.

FREE SECONDARY EDUCATION.

Fees in the Secondary schools did not make those institutions self-supporting, but they erected an effectual barrier to the higher education of the worker's children. The ideal of Victor Hugo should become an accomplished fact in our country-" free and compulsory Primary education for all free Secondary education for all who had the ability and the desire." The time had come to cease talking of the ladder from the Primary school to the University. The welfare of the nation demanded not a ladder, but a broad, firm and well-laid highway along which the poorest might travel if they possessed the ability. The problem of University education presented a slightly different aspect. The great democratic University of England was being assailed by the forces of reaction. The classes having fastened their grip on Oxford and Cambridge, were now casting greedy eyes on London. Its external degrees were an eyesore to them and they demanded their abolition, to make London even as her sisters—the preserve of the wealthy and those of high degree. Lord Haldane had promised them great educational reforms, and the democracy relied on him to see that the external degree of London remained until the highway to the Universities was an accomplished fact.

The Conference received departations from Teachers' Associations in Germany, Holland, Belgium, Scotland, and Ireland, from the Cooperative Union, and from the Teachers' Guild.
A letter was read from Sir George Kelwinch,
the only Hon. Member of the Union, regretting
his inability to attend, and say that, as through
all his official life so now his heart was with the
teachers and the children In the afternoon a
private session of the Coeference was held

LORD HALDANE ON EDUCATION.

Lord Haldane addressed a special sitting of the Conference of the National Union of Teachers at Weston Super Mare, on March, 25—

LORD HALDANE'S SPRECH

Lord Haldane, who was very warmly received said that when he was at the War Office he tried to learn by putting himself in the closest contact he could with the soldiers. He now wanted to follow his old practice and get into the closest contact with the teachers. Having read the president al address, he found himself on many points in close agreement with it The President had done well to call attention to the state in which our Elementary schools were to day in many parts of the country The public had not yet realized how backward and how apparently boneless some of these Elementary schools were, particularly where there were single-school areas He did not believe that they could treat the problem of elementary education or undertake the reforms which were necessary without deal ing with problem of education as a whole, and with secondary education, therefore, at the same time

Three had been rumours that he was about to unfold the details of the plan which the Government had fashioned. There were two very good reasons why that could not be The first was that they were all working under the leadership of the responsible Minustee whose duty it was to deal with those questions, and who slore could deal with them as armetimes and a diligence that were beyood prace. If swaked to add that has a staff were working with him in the same spirit, Nothing could be more thorough than the way, in which the Board of Education were throwing themselves into this great problem. Therefore the announcement must come from the President of the Board of Education, so far as datails were concerned.

A COMMITTEE OF THE CABINET.

There was another reason why they could not come even from him, just yet. Since the begin-1 mag of December, a powerful committee of the Cabinet had been engaged on that problem in consultation with experts. There had been sit-, ting on it Lord Crewe, and the man without whom they could hardly get one step along-he meant the Chancellor of the Exchequer There were also Mr Runciman and Mr Arthur Acland, who had thrown himself heart and soul into the subject. With those gentlemen and with the experts they were busily at work but they did not intend to produce their scheme until they were sure of it and until it was completely ready. While he did not think it would be long before they produce plans, they did not intend to produce those plans until they knew exactly where they stood.

But there were some things involved in the amounteness which was made in the Kings Speech that their task was the development of national system of education on which he could well speak What he was about to say represented his own views, but he would not refer to them unless he was treading on fairly safe ground

THE NEED FOR DRIVING FORCE

They required driving force from the nation because the problem of education was in very large part a problem of many. It had been the fashion to entines the Board of Education, but, having looked into it, his marvel was that the Board of Education had been able to do so much with inadoquate means. He was

gratified with what Mr. Dakers had said about the splendid work which had been done by some of the local education authorities without untiling beavy burden on the rates, for the assistance which they had from the nation had been assistance which up to now had been inadequate to the magnitude of the task which was put upon them. It was a task which necessitated that they should have the mind of the nation at their backs, and have that enthusiasm without which the problem of finding ways and means was one they could never solve. Why was there that anathy about this tremendons feature of our national life? If they did not keep abreast in the training of the national mind with those other countries which were organizing their education evatems and which in many respects were our superiors. it was inevitable that in these days, when science and knowledge were the conditions of all success. industrial and generally, they would fall behind in the race. It was a question of national safety, and nothing else, with which they were dealing His observation of political life had been that enthusiasm came like the wind by fits and starts. and that what they had to do was, when they got the enthusiasm, to make the most of their opportunity. Before 1870 there was real enthusiasm about education. There were Huxley, Matthew Arnold, and William Edward Forster. They did a great deal, and they took the larger view, but their energies were exhausted by diverse circumstances before they could accomplish more than balf their task. The enthusiasm which nassed the Act of 1870 frittered itself away in a great religious controversy, which sprang up when they were dealing with education. They ought to not education first, and then make their arrangements for meeting the feelings of those who had strong religious convictions, which must be respected and for which provision must be made.

Between 1870 and 1879 the period was not bearen but nothing very great appeared. In 1869 XIX

there was a new movement. Wales was the pioneer, and the Welsh Intermediate Education Act set an example to the rest of the world. At that time secondary education was not so much in men's thoughts as technical education. People had begun to get alarmed about their industries. He was sometimes very much concerned about, our industries when he thought of the backwardness of our educational system, but they did not live by bread alone and they would not get even a good technical education system unless they put it on a broad foundation of national education. The Act of 1889 did something and the whisky money which came in 1890 did a good deal but after that the enthusiasm of the nation seemed to have evaporated. There were wise men and women who said that a step forward must be taken, and authorities constituted in England which could deal with the whole problem somewhat in the fashion it had been dealt with in Walss. The Bill of 1896 was a notable attempt of that kind, but that Bill failed and other Bills failed because there was not driving power behind them and because the House of Commons which was a mirror of the feeling in the country did not reflect the enthusiasm which they must have if they were to make progress.

A FALSE VIEW OF SECONDARY EDUCATION.

If the Education Act of 1902 had followed out the ambitions of its authors, he believed it would have established large authorities charged with looking after Elementary and Secondary education, and Secondary education was not, as a great many people thought, another kind of education intended for a different 'social class. That notion had inflicted a cruel injustice upon pupils and upon teachers alike. They had got to break down the notion that secondary education was anything more than a successive stage in elementary education. But, in spite of all the difficulties it was really remarkable the progress

which had been made in the last few years with the combined efforts of the Board of Education. the local authorities and the teachers. The number of children in average attendance in the public elementary schools in 1902 was 4 890,000 In 1912 it was 5 357,000 There were in 1902. 67.768 certificated teachers. For the year 1912 the number was 103,513-a notable advance The number of children to each adult teacher had fallen from 40 to 33 and that pointed to the fact that people were beginning to realize that the teacher could not bandle more than a limited number of number of State aided secondary schools in 1902 was only 272 To-day it was 885 The number of pupils in the State aided schools in 1902 was 34 700. This year the number was 151 000. The number of pupils from elementary schools holding scholarships and bursaries from public funds in England and Wales in 1902 was a 500 It had now risen to 49.120 The expenditure from public funds on scholarships was only £80,000 in 1902 To-day it was £400,000 The number of students at technical and evening schools on whom crant was paid in 1903-4 was 469,080 To-day it was 628,181 The number in day technical classes and technical institutions was only 1,507 in 1903 4. To-day it was 21,082

A NATIONAL STREET OF EDUCATION

Those figures meant that the breeze had been attring, and they had reached a stage in which in the national interests a national system of adication was absolutely required. People complianed that it was a ragio word, that it was only an idea, but if they could get the ideal colarly into the public mind he had little doubt that they would achieve their object. A national system of education would ensure a great many things. It would ensure that our workmen were on the level of the workmen of other countries, and it would do a great deal to break down the great loss of denarration that there was bettern the man who worked with her said the man who worked with her

hands and the man who worked with his head The real democrat, was the school teacher. Lat him loose and he would break down the barriers which senarated class from class. As part of a great democratic movement a true system of national education was vital. But it was for the sake of the things of the spirit that they required that broad foundation of knowledge and culture which was the making of the people that more than for anything else that he stood before them as a missionary in a great cause, the cause of the establishment of a true system on education. The State had a deep and direct interest in seeing that its people were educated, just as it had in seeing that they were healthy A national system must take cognizance of all the means by which education was provided in a country like this The highest means, the lowest means, the University, the Secondary and the Elementary school-they must all be fitted into their place in one system More than that, the meaning of education must be wider than that they had been familiar with They were learning that not only the brain but the eye and the ear and the hand could be the means of training the mind and moulding the character They must get new views from studying what was being done elsewhere, in continuation classes, in what could be done for children while they were young, in seeing to their health, in seeing to their well being, in looking to the life of the future generation in all its aspects. That point was essential to a national system. That did not mean necessarily that the State must be bureaucratic. They had always been strong in this country on the notion of devolving on local authorsizes the business of carrying out Local Government as much as they could, and be hoped they could not cease to have st, because without it they could not have that local enthusiasm which did so much beyond what the law could give. A system of that sort need not be a burrencratic system. The most serious part of that work rested, and always must rest, with APRIL, 1913.]

the teachers. Until they got a high standard of efficiency among their teachers they could not get their national system up to its proper level. Of course that meant a great deal of expenditure. but it was not only for the teachers that money was required. It was required for buildings and for all sorts of things they did not possess at present, and without which they could not make their organization a real one.

ORGANIZATION FROM THE UNIVERSITY.

They must organize from the top. He wanted to see the University idea, which was a very high idea, everywhere present. He wanted to see it in the mind of the elementary teacher, and he wanted to see an understanding of the mind of the elementary teacher in the University. They could not not primary education on a proper footing without taking into account the next stage, and they could not put secondary education on a proper footing without considering that University education came after. It might he that very few went from the Primary to the Secondary school and, still fewer to the University; but still the great ideas ought to permeate from the top, and they could not separate the one from the other in fashioning out their organization. It was essential that they should deal with the whole of education simultaneously. He attached great importance to the Teachers' Registration Council because he saw in it the foundation a true esprit de corpe among teachers as a body. It was through that Council that they would get co-operation and mutual understanding among the teachers which was necessary if the right pupil was to be nicked out and selected for secondary education. The appointment of new Assistant Inspectors with eight years' experience of elementary teaching meant that people had begun to realize more and more that it was not through abstract ideas alone that they could deal with the question of education. The four years' course at present extended to only about a thousand students.

Still it meant that 1,000 teachers were taking their training in a University atmosphere. If University education had been carped at and had been unpopular, it was because Universities had been so few and so inaccessible that people had not been abla to get the benefit of them generally. And yet the Universities and the facilities for getting to them were improving rapidly. Ten years ago there were only six teaching Universities, but since then five more had been established. That meant that there were a much greater access to the Universities than there was before. and much greater change of bringing them to bear on the training of the teacher. Putting outside Oxford and Cambridge, the number of students working in the day-time had doubled in the last ten years. The number of degrees obtained by students in England and Wales in 1911 was more than twice the number obtained in 1901. Presently the Universities would be made much more accessible still, and the four years' course was the beginning of a movement which be hopes would end by getting rid of the uncertificated teacher. The four years' course not only means higher efficiency but higher ideas. There were things they could not get outside the atmosphere' of the University. They got there that larger ontlook which enabled them to see things completely, to see them whole, with a knowledge and a grasp of principle which made technical details easy. More and more people were coming to realize that teaching was a business which required very careful training. Mr. Dakers, in his address on the previous day, made a playful allowion to his connexion with external students. He (Lord Haldane) would never admit that au external student was the same thing as an internal student. The internal student had . matured his mind in the University atmosphere. The external student was working hard, but only for the external examination, and some people with much less aptitude than their neighbours in what was best in the realities of education had

much greater aptitude in passing examinations. Therefore the external examination was not a real test of learning The only real test of learnung on which he would like to give a degree exclusively was the record of the student domng his time at the University Three years or two years spent within the walls of a University were worth anything At the University the teachers and the taught were nearly on a level They were dealing with great problems they were searching after truths in which there was no certainty, and it was that common quest which gave the higher relation between teacher and taught that they could never get quite as well outside a University It was not only that, but it was the association of the students and the feel ng that they belonged to the world of learn ing He wanted that for the teachers, and it could not be got merely by taking degrees with external examinations, but they had not yet got the opportunity for all the teachers to live in that atmosphere, although the four years' course was a start on that new path. Until they got the fall opportunities for the teachers he did not think that it would be right to take away the chances of external degree.

THE POSITION OF SECONDARY TEACHERS

Turning to the position of the secondary teacher and of secondary education in this country, Lord Haldane said that the quantity of secondary education properly organized and recognised by the State in this country was almost negligible No doubt there had been amprovements and there were some places where it was very good indeed, but in the more remote and less enlightened parts it was hardly an exaggeration to say that secondary education scarcely existed It was the essence of a system of national education that their secondary system should be enormously strengthened. The German education system had its weaknesses. He doubted whether it was accessible to the democracy, as ours was, but it had one source of immense

strength-its pivot was the secondary school Indeed, the secondary school had made their educational system a unified and a very powerful one. It was most unfortunate that so many children were withdrawn from the teacher on excuses that were altogether inadequate on the plea that there was a beneficial occupation that they could usefully follow it might be right in certain cases to let children away from the schools before they were 14 but only on consideration that they began at once in some other kind of school It was all very well to talk of an educational ladder but it was only very few who could go on to secondary education properly so called and still fewer on to the University Let them make provision for that excellent minority, but let them remember the great majority, for whom they had to do something and whose educational career was all but short when it ended even at 14 There was another case. Their rural districts,

particularly required some kind of treatment. He did not know of any spectacle more than that the education which the child of the agri cultural labourer could hope for That was one of the great points in the land question to which the Chancellor of the Exchequer would give his close attention. Until they had done that hat future generation of agricultural laboney were not rise above the level at which, in seeing to day, and it was vital in the go the life of the that they should assist the aspects That point

THE RELIGIOUS system That did

He heard the other hat the State must be the religious questioned always been strong in not mean that theretion of devolving on local victions or to igress of carrying out Local mean was that thech as they could, and he they would have not cease to have it, because building up of a na kould not have that local a spirit of tolerandid so much beyond what the lower plane of a system of that sort need not of many of their system. The most serious part of many of their std, and always must reat, with things that they are recognized could not contippe. For instance, in the single school areas the echools were mainly Church schools What mattered was that they were very had schools In many cases they were run not for the benefit of education, but because there had been an old thing there and neople had gone on with it They would never get matters right of they selected a head teacher because he played the organ wall. The single school areas presented a very pressing problem and they had got to see to it that at the head of each school there was a good teacher If they succeeded they would succeed by maying the people of this country to give money out of their national resources. The drain on the people was a heavy drain but the increase in the national income had been tremendons within the last generation, and they could well efford to do this. It was not a metter in which they really had an option, for unless they took this great step forward, they would be false to the generations which were to come

LORD HALDANE AND SECON-DARY EDUCATION

A NATIONAL PROBLEM.

Lord Haldane attended on Saturday, March 29th, a post meeting of Secondary and Technical Tacobars, held in the Great Hall of the University of London. On this occasion, however, the Lord Chancellor was a listener for the greater part of the time, during which the views of the Secondary and Technical teachers on educational reform were laid before him After two Resolutions had been adopted, setting out the teachers' desires, Lord Haldane delivered a short speech in which he dealt with the need for reform in Secondary adocation. The Headmaster of Euo preeded over a large Tathering.

The Chairman said that Lord Haldane's presence was an indication of the tetention of the forerment but to proceed without first taking counsel of the teaching profession. They had

no reason to doubt that the State was willing and tudeed anxious to allow reasonable freedom, and they treated that liberality and careful consideration would be the mark of any regalations which might now be contemplated. Referring to the question of a pession achieme for eccondary teachers he said that the presence of the Readmaster of Harrow and a letter he had received from the Headmaster of Winchester colicated that those who represented larger public schools no longer felt at possible to stand adoof from that anisation.

Cauon Swallow (Chairman of the Incorporated Association of Headmasters) moved a Resolution welcoming the aunouncement that the Government proposed to deal in the near fature with the question of education , hoping that the State would leave to the school all reasonable freedom in such matters as time-table, curriculum and careful educational experiments, and, with the object of attracting into the schools a sufficient supply of able and efficient teachers, urging that the increase of salaries and provision of an adequate pension scheme should be a first charge upon any further grapts for secondary and technical education. He did not think that there was much fear of the freedom of the Secondary schools being impaired for he took it that the Government would remove direct control from the local authorities, which were, with very few exceptions, disposed to find for their schools good Headmasters, and leave them free to work out the salvation of the school At present experiments were stopped for want of means, and unless the country was prepared to spend six or seven millions a year more upon education they could not hope to make it worthy of the nation

Mr. R. F. Cholmeley (Owen's School, Islington), who seconded the Resolution, and that one of the most favourable symptoms in the educational activity of the Government was that manifestation of desire to know what the teachers thought.

Mr. P Goleman (Chairman of the Association of Teachers in Technical Institutions) supported

the Essolution, which was carried unantmoosily A second Resolution was also notyfed expressing the opinion that no poision scheme for secondary and technical teachers in Legland and Wales could be considered adequate which did not provide bestells approximately equal to those now secured to Scottish teachers

A HOPEFUL OUTLOOK.

Mr. Arthur Acland and that since the conversations he had had during the autumn with the Chancellor of the Fxchequer and the Lord Chancellor he had begun to hope that at last a national policy of education was in sight. They who were interested to secondary education were very timid folk. They were very much afraid of State inteference, What they wanted was lots of money and as little 'red tape" at messible The proper corrective to too much State interference was a united teaching profession taking constant counsel with the Board of Education It was early yet to speak of what they honed the Teachers' Registration Council would do but it was a splended thene to find in the same room for the first time under an Order in Council 44 persons representing the whole of the teaching profession of this country

LORD HALDANES SPEECH.

Lord Haldaus said that he was one of a band who were on a voyage of discovery, and who wanted to know all they could before they committed themselves to details It was plain that the Secondary teacher was vastly underpaid but that was not true of him alone. Before they got such greenous redressed they must interest the British public in their case.

"There was a notion in the head of the man in the street that secondary education was a fuzzy with which he need not trouble himself, and so long as that notion was in his head it would be very difficult to get him to pay any taxes for secondary education. But if they could himself him

moment a peril to the nation and that it was a question of national safety with which they were dealing, then he would take a larger view It was not that we were not come on Magnificent work was being done and the London County Council had set a fine example. The Government had done a certain amount, but there was not progress sufficient to make up the leeway. They were behind the level which had been reached by several of their competitors, a level which would put them in peril. They must not think that he wished to base the case for education and especially for higher education on mere grounds of materialism, but they could not dissecute national progress from the basis of knowledge even when it came to the question of making money , and if the level of the national recome was to be maintained, if their industrial pre-eminence was to stand, he said deliberately put its educational system in order "

that the nation would have to make an effort to Broadly speaking, the number of pupils who left elementary achools in each year was 600,000 and about one in 23 went on to some form of higher education, and about one in 48 had got a free place As a result the demand for secondary teachers was increasing and there was a threatened falling off in the number of teachers, because as they were not properly paid people did not non the profession They must not let secondary adnostron he senarated and replaced in the public mind from elementary education and from University adacation A great step forward had been inaugurated in the shape of the Teachers' Registration Conneil One result of the gap between the elementary and the secondary school was that some chappe must be made if the average boy or girl was to get the good of some form of higher aducation. It was not enough that selected pupils should go to the secondary school. They wanted to make some provision also for the average pupils. That meant they would have to do a great deal in the way of broadening the conception of Elementary education in justice to Secondary education,

THE BURDEN OF THE UNIVERSITY

It was an old and narrow notion that it was only with books and abstract subjects that they could give higher education They were getting very much wider notions of education and they required them Just as they had got to relieve the secondary school of a good deal of the borden on it because of the imperfections of the elementary school, so they had got to relieve the University of burdens not upon it by the de ficiencies of the secondary schools. Reference had been made to the Intermediate examinations of the University being taken in the school The preliminary studies which were tested at the Intermediate examinations ought to be taken in the secondary school If they had a properly developed system of secondary education did they think medical student would have to wait for his general knowledge of chemistry and botany until he went to the Unviersity? Did they think that the Universities would be burdened as they were with giving instruction of a comparatively ordinary kind in the elements of mathematics, physics, chemistry, and other subjects?

THE GERMAN EXAMPLE One reason why the Universities had suffered was because we had never understood fully the significance in the educational system of secondary school In Germany it had been different The whole educational fabric there rested upon the basis of the secondary school. The boy went into the secondary school young and remained there if he went through the full course for about nine years, and at the end of the time he was so qualified that he went straight to the Univer sity. There was no matriculation examination, but the student had to produce his entrance certificate showing that he had goes through the mill and been in the atmosphere of the secondary school. They had outgrown the period of the old fashioned examination. What they wanted was record, and he looked forward to the time when every body who went to the University would have that record He believed that the new four years' course would be a great stimulus in that direction. The time had not retrame when they could decree the external student of his chance of getting an external degree. That would come when people real red that the external degree meant nothing comparable to the degree which was the hall mark of having lived in the atmosphere of the University Education was the greatest reform they could take in hand and expenditure on education was productive expenditure which they were justified in making a sacrifice to mear

EDUCATION IN THE MAGAZINES (INDIAN)

Elementary Education.

In opening the first model Elementary School in Triplicane. His Excellency Lord Pentland spoke on the importance of Elementary Education from which we take the following -

If we look at the statistics of Elementary edu cation throughout the Presidency, we find that naturally enough from the facilities it affords, from its wealth, from the foundation and the endow ments which are established within its limits. Madras City stands first in the attendance of chil dren at Elementary Schools for I think there are something like 243 recognised Elementary Schools within the Municipal limits and in these schools we find 15,206 hove attending and something over to ooo girls You will not find I think, so large a number of girls comparatively attending in any other part of the Presidency, and that I think is a subject for congratulation A great deal therefore has been done, but when we recollect that there are only 15 000 odd attending schools out of 38,000 that should be attending Elementary Schools in the City of Madras, we see what great need there is for such a building as is represented by the school You have seen the premises, you have seen the class rooms, you have seen the play ground which. I think is an essential addition to a school of this kind and I am sure there is not one of us that has not been glad to see the merry faces of the children and the cheerfulness with which they have taken part in the songs and exer cises that they have given before us. Depend upon it that there is no better thing that any of us can do to our children than a good education as an equipment for life. Therefore we cannot but take a warm personal interest in an effort of this kind I think this occasion is for one or two reasons more notable than the opening of an ordi nary school In the first place it indicates the opinion of the Corporation as to the importance of Elementary education, and as was wisely said already this afternoon, if I may so characterise it, it is of the highest importance that to take part in the industries of this great city, to appreciate the improvements introduced by the Corporation itself there should be intelligent co-operation on the part of its future citizens hvery rupee that the Corporation spends in improvements will be enhanced by value if that expenditure is rightly appreciated as a benefit by those for whom it is intended. I feel certain that as time goes on, the educational efforts of the Corporation will be warmly approved.

the Resolution, which was carried unanimosally A second Resolution was also adopted expressing the opinion that no poision scheme for secondary and technical teachers in England and Wales could be considered adequate which did not provide benefits approximately equal to those how secared to Scottinh teachers

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moment a peril to the nation and that it was a question of national safety with which they were dealing, then he would take a larger view It was not that we were not going on Magnificent work was being done and the London County Council had set a fine example The Government had done a certain amount, but there was not progress sufficient to make up the lseway. They were behind the level which had been reached by several of their competitors, a level which would put them in peril. They must not think that he wished to have the case for education and especially for higher education on mere grounds of materialism, but they could not dissociate national progress from the basis of knowledge even when it came to the question of making money, and if the level of the national income was to be maintained, if their industrial pre-eminence was to stand, he said deliberately that the nation would have to make an effort to put its educational system in order"

Broadly speaking, the number of pupils who left elementary schools in each year was 600,000 and about one in 23 went on to some form of higher education, and about one in 48 had got a free place As a result the demand for secondary teachers was increasing and there was a threatened falling off in the number of teachers, because as they were not properly paid people did not join the profession They must not let secondar! education be separated and isolated in the public mind from elementary education and from University education A great step forward had been inaughrated in the shape of the Teachers' Registration Conneil One result of the gap between the elementary and the secondary school was that some change must be made if the average boy or girl was to get the good of some form of higher education. It was not enough that selected pupils should go to the recondary school They wanted to make some provision also for the average pupils. That meant they would have to do a great deal in the way of broadening the conception of Elementary educa-

tion in justice to Secondary education,

It is now realized that what are known as "economic laws are for the most part generalizations about the economic phenomena and the industrial structure of Europe, and that these generalizations do not necessarily hold good in this country economic structure of England is different from that of India If you produced descriptions in the form of monographs of industries as they are conducted in India, you would be producing a kind of work which would take a most useful place among the economic books written at the present If you go on in this way making enquiries into details, your work would have real ut hty There is an institution which works on these lines in England-the London School of Economics Its members been by making detailed enquiries and taking down notes as to what is actually taking place in some industry or social group They form. e.g., a separate branch for studying Railways, another for studying Banks Work of this kird done in India would be of extreme value to European students Professor Marshall has said to me 'We suspect, but do not know for certain that the present economic structure of India resembles the economic structure of England before the Industrial Revolution All that we have yet got is fragmen tary evidence I finally suggest that in the course of your enquiries it would be interesting to find out the present condition of the descendants of classes who had formerly been enslaved. There is a quite interesting report on the subject of slavery in India The enquirers came out on behalf of the English liberators of slaves and were a picked commission But they gave a very favour able account of the condition of slaves in India as compared with those in Africa. It would be of interest to learn what had become of this class, and whether it had risen in the social and economic scale

The Teacher.

In the course of his valedictory address at the 23rd annual meeting of the Teachers College Teachers Association, Saidapet, the Hon ble Mr Justice P R Sandara Iyer dwelt on the subject of the 'Teacher" He said:—

It is a tradition and practice that a teacher has to be satisfied with the feeling that he is performing a secred task and take consolation in that fact for the absence of good emoluments. In India learn ing is never barriered for money and the teaching profession is placed above all pecumiary apparatus to the profession of the profession of the profession of the profession of teachers for the reason that life is becoming more and more cost! A teacher should

be placed above want, because his cadacity for work will be diminished I hope that the scheme for Provident Fund for teachers will be successfully carned through A teacher should realise that large wealth is not his goal. At the same time he must also realise that his responsibilities and the sphere of his duty are continually widening. The teacher is thought of as the person who would > put everything right and courses of lectures on sanitation agriculture and co-operation are deliver ed in the Teachers College A competition has been announced in this College in treating the subject of moral and religious instruction teacher is looked upon as the instrument for removing all grievances. A teacher is expected to see that the students are trained in a scientific attitude of mind to see that the treating is practical. and that he is also training the moral instancts. Young men should be so trained as they would be willing to change and adopt such modifications of existing things as might be demanded by the necessities of progress. It is often said that disci pline is becoming lax and that a student should be kept under strict discipline. But I am not con vinced that increasing strictness is necessary or beneficial A student from highest to the lowest class has very little to do anything on his own account Every hour of the student is absorbed in doing the work prescribed by the school authors ties. What is required is not so much control of the student s act but is constant holding up of high There should not be too much of organisa tion and too much of discipline in the matter of education Students should be disciplined in such a way as they would think that they were bound to act rightly without rules More freedom should be given to teachers and probably that requires important changes in the manner of inspection in the Grant in Aid Code Students should be trained in the habit of studying things in the concrete and should be made to take an interest in the external world They should acquire the habit of methods cal and persistent thinking and not be satisfied with their quickness and subtlety of thought Instruction should also be given to students on the duties of citizenship Teaching profession is the most noble and sacred profession

Education in India.

At the 23rd anniversary and prize-distribution of the Madura College held on the 19th instant in the College Hall, the Chairman the Honble Mr T V Sesha, in Aiyer, traced the history of the educational pol cy in this country from the very earliest times, re. 1855 He said —As soon as the British Government was firmly established in

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of educating And end would thus be put once and for all to the employment of those uon descript anachronisms known as supplementary teachers. Their existence is a national disgrace and a further insult to the workers whose children are condemned to these tender mercies. Their introduction into the Primary schools could only be pustified on the supposition that pupils in those institutions are marked with a perpetual brand or inferently

Woodrow Wilson.

The following is an abstract of the career of Woodrow Wilson, the President of the United States, by Reginald R Buckley

Woodrow Wilson was the son of the Rev J R Wilson, a Presbyterian pastor of Wilmington, North Carolina As a school boy he was manly, but at the same time a keen worker. Neither a swotter nor a mere athletic implement. Wilson was popular. He was fond of his home and his people Before Woodrow Wilson was eighteen he was sent to Davidson College but a year later (1874) he entered Princeton the history of which goes back to 1746 There he read hard and played baseball He rejoiced in oratory, especially in the speeches of Edmund Burke Moving on to the University of Virginia Law School he won the Jefferson Medal for oratory He practised as a lawyer, but found that 'the law has ceased to be profession. and has become a trade ' When Mr Wilson had taken his degrees he became Professor of Political Science at Bryn Mawr He married Ellen Louise Axon, a beautiful lady from Savannah of Cavalier extraction They have three daughters Margaret Wilson is a soprano singer, training in New York Her sister, Jessie is a painter and social worker, and Eleanor, who also is studying painting. The mother has a reputation as housewife and cook

In 1899, Woodrow Welson became Professor of Junsprudence and Political Economy at Princeton. He learned shorthand, and in every possible way qualified himself as an organiser. In 1900 he became President Institude of delivering fectures tudents, and even tired to modify the club a years tudents, and even tired to modify the club a years (an exaggeration of our own collegiate and non collegiate melbod.)

In 1910 he resigned leaving Princeton prosprous and of greater importance and influence than ever before. Like all big men, hit aims had far exceeded the results. But much had been done. His personal record was a hierary one. "Division and Re-Union" his work on the Civil War, sppeared in 1893. The same year gave to the world "An Old Master and other Polucal Essays" The Old Master was not Rembrandt but Adam Smith, of the Wealth of Nations." In 1896 appeared a volume of essays entitled Mere Literature ' That title was characteristic of the man

Word spanning he valued as a means to an end. In is 'George Washington' which his been revised quite lately, the new President deals with social and domestic qualities of the man. The famous 'History of the Amirican People' appeared in 1901. In order to understand the value of his appointment, one must look at his latest bubblearion. "The New Percedom."

THE UNIVERSITIES

MADRAS UNIVERSITY

M A Degree Examination, 1913 Branch II-A (Physical Science)

The following are the names of the successfu

Kuppana Aiyangar, D. Parthasarathi, III Class. Manukhan, Jonathan P., II Class. Subramakhuna Airar, V., II Class. Subramapan P. E., I Class. Vuckata Rau Andola, I Class. Vistanatha Aiyar, Vellayanur N., III Class. Vistanatha Aiyar, Vellayanur N., III Class.

eran, P III Class Branch III-C (Zoology)

Channappaya, Halsand III Class. Devanesan, David W., II Class Kstunaksran Nayar, Kolazhi, III Class

Moses, S Tangaiya, Hil Class,

Branch V (History)

Babu Rau, Lollipara G., H Class

Jagadeson, S., H Class

Joseph, Paojikran O, III Class Khahfullah, P, JiI Class, Midkantan, A, I Class Raman Nambussan Takkepat, III Class Seshan, T B, III Class Siracanakrishna Rau, Kara, III Class Siracanakrishna Rau, Kara, III Class Sabbarya, N R, III Class Vashkraraya Aver, Subrahmans, III Class

CALCUTTA UNIVERSITY

University Institute.

The annual meeting and prize-distribution of the Calcutta University Institute was held at the ; Institute Hall, College Square. His Excellency it Lord Carmichael presided, and there was a large attendance.

On the motion of the Hon. Mr. J. G. Cumming. seconded by Sir Gurudas Banerjee, the annual teport for 1912 was adopted.

His Excellency gave an interesting speech in the course of which he said:-I know how devoted you students are to your Chancellor. I know what an interest our Chancellor takes in all connected with the University and especially in all that goes to promote the welfare and happiness of you students. I know how sorry you all were that His Excellency Lord Hardings could not preside at your last Convocation, as we had hoped he would. We know the reason, we deplore the reason, but it is not to that I want to refer. I want to ear that I believe that you are all proud of your Chancellor, of the way in which he met the evil fortune which came to him, of the way in which he has done his work, fearlessly and uncomplainingly ever since. You were, I am sore. proud when you read the speech which he made at the opening of his Legislative Council in Delhi, now almost to-day 2 months ago when you read how he clearly declared that his faith in India remains unabaken. Gentlemen, it lies with you the students of Calcutta University as much as with anyone to show to the world that your Chancellor is justified in his faith. What you think and what you feel must affect the feeling of all Bengal, and we believe that what Bengal feels and thinks must affect all India.

A lacture. Under the abspices of the Calcutta University Institute Prof. Radhakumud Mukerjee, M.s. P.R.s., read a paper on "The fundamental unity of India" on the 31st ultimo. Sie Gurudass Banerjee

presided, Dr. Bruhl appointed Registrar.

The appointment, recently announced, of Dr. G. Thibaut as the first Region Professor of History at the Calcutta University, caused a vacancy in the position of Registrar, which Dr. Thilant bas held for many years. About a year ago, Dr. Thibaut was given a fire years' extension of his appointment as Registrar, but he could not continue to hold this office as well as the Regius Professorsaip, and the Syndicate offered the Registrarship to Un. P. Bruhl, who had recently retired after a long period of service as Professor, and on several occasions acting Principal of the Sibpur Engineering College. Dr. Brahl did a great deal of west in connection with the organization of the Physics Laboratory and the Minerological and Godes, ind Manums at the hibbar College; and it is understood that he will be entrusted with the organising of the Palit Science Institute from the endowment placed at the disposal of the University authorities by Sir Tarak Nath Palit.

University Lecturers. At a meeting of the Senate of the Calcutta

University, the Senate accepting the recommendation of the Syndicate, resolved that Dr. P. C. Mitter, M.A., Ph.D., be appointed University Lecturer in Chemistry, and Professor R. N. Gilchrist, M.A., as University Lecturer on Political Economy and Political Philosophy for the Session 1913-14 to deliger a course of lectures on the comparative study of Social Institutions.

Ananda Mohan College.

In addition to the affiliation already granted, the Ananda Mohan College was further affiliated to the B.A. Pass Standard in the following audiecta with effect from the commencement of the ensuing Session :- English, History, Philosophy, Sanskrit, Persian and Vernacular Composition.

Lecture by Dr. J. C. Bose. An interesting and instructive discourse on "Electric Response" was delivered by Professor J. C. Bose in the ball of the Calcutta University Institute. The Hon'ble Mr. P. C. Lyon presided,

PUNJAB UNIVERSITY.

Lectures.

and the hall was crowded.

Mr. Gordon Sanderson, of the Archmological Survey of India, delivered a course of six lectures in the University Hall, Labore, commencing on Tuesday, the 25th March and terminating on Monday, the 31st. The first lecture was introductory. The second and succeeding ones were on the following subjects :- Architecture of Khilin and Tagbiek dynastice : Afghan Architecture: Early Mogbul Architecture; Middle Moghul Architecture, and late Moghul Architecture. The subjects are important. But the lectures could have increased their value if he had also included early Hindu Architecture.

ALLAHABAD UNIVERSITY.

Mr. E. F. Hatris, the Principal of the Almer Gorerament College, has been re-numered to be an Ordinary Follow of the Allahabad University.

LONDON UNIVERSITY.

Appointments,

The Landon Conservaty Professionable of Preach Literature, recently endowed by a London timetr. Conocil grant, has been filled by the attenument. of Dr. Gustave Rudler, D es L. of Paris University. Dr. Rudler, who was first on the live of Agrifas das Lettires in 1895 took bis Doctorale four years ago, and is now Professor et the Legot Louis to Grand in Paris Dr. A. da Pre Denning. B Sc. London, Ph.D., Headelberg, he be appointed Secretary to the London University Appointments Board

Mr. T. Il Humberstone, B Sc, has been appunted by the University of London to the Mitchell Studentahip. The Studentship which is of the value of £100, is awarded to the selected candidate to enable him to study and investigate some definite feature of business or industrial organization at home or abroad. Mr. Humberstone proposes to investigate a scheme or £104a-stul Fellowships in the University of Pittsburgh and Schans, under abled to reach work in Applied Schans, under abled to reach work in Applied to some extent under the supervision of great industrial and commercial creatizations.

New Senator

The vacancy of the Sanate of London University caused by the death of the late Lond Mananaghten has been filled by the nonmation of Mr. N Micklem, K.C., who from 1905 to 1910 represented the Watford Division of Herts in Parlament in the Loberal interest Mr. Micklem took his B A. of London in 1873 and his Li. D in 1881.

EDINBURGH UNIVERSITY

At the agong graduation at Léndhungh Unresstrik, Sir William Torner, Yies Chanollor, releaved to the number of Indian students who had come to the front to Aris, no fewer than eight gentlemen having recessed the degree. In looking at the Banchier of Sciences into the found that the Indian than the second of the second of the second who had graduated in Science according to who had graduated in Science according to graduate the second these two facts, and said they were ex-decor that the subress of India appreciated the training they received in the University. They were standar with the sames Exhibiting the second of the second of the second Exhibiting the second of the second of the second Exhibiting the second of the second of the second Exhibiting the second of the second of the second Exhibiting the second of the second of the second Exhibiting the second of the second of the second of the Exhibiting the second of the second of the second of the Exhibiting the second of the second of the second of the Exhibiting the second of t

ABERDEEN UNIVERSITY,

The University of Aberdeen at a recent Senate meeting resolved to confer the Honorary Degree of LL D on its distinguished alumnus, Sir James Meston In these days Aberdeen University does not perhaps contribute so many men to the Indian Giril Service as it did thirty years ago, but the b.

names of, let us say, Sir James Thomson (now on the Secretary of State's Couroll), Sir Bound Robertson, and Sir James Meston are enough to abow that the quality is not falling, remarks the Pioneer

TECHNICAL EDUCATION.

TYPEWRITER TOPICS,

DUBASH KADER COMMERCIAL SCHOOL.

The Annersity and Prize distribution ceremony of the Detach Kader Commercial School, Madura, was held in the School Hall The Horolie Dewan Bahadre J. D. Swamkanne Pilla, u. 4. L. U., Rigustrar of Co-operative Societies, preeding There was a large attendance of the clust of the city. The premises were traffelly decented with general, The proceeding and mented in greats, The proceeding and the The Lieptonice, Mr. K. A Sachara Iyer, read the school report for the year [1911-12]

read the school report for the year 1911-12

Then the Chairman gave away prizes to the successful populs Special prizes also were given

for some of the students

The Chairman in the course of his remarks
said that he took very great interest both person
ally and officially in the progress of commercial
education in this Presidency.

He congratulated the stodents who were declared winners of prizes in the various subjects tought in the institution and also the file-dimaster and his Assistants for the success which has attended it in the part, and wished all success in the foture.

Mr. D. K. Syed Ibrahim, the Manager of the Institution, garlanded the Chairman and proposed a rote of thanks to bim With the distribution of flowers and with the enging of the National Authora, the meeting was brought to a close. THE COMMATORE AGRICULTURAL COLLEGE.

A very pleasing function was performed by Mr. D. Chadwick, I.O.S., the Director of Agriculture, Madras, at one of the spacious lecture-halts on the top-floor of the College in the presence of the students, the staff of the College and the Farm employees. Mr. R. Cecil Wood, Principal of the College, in an appropriate speech, requested Mr. Chadwick, I.O.S. to distribute the diplomas.

After presentation Mr. Chadwick addressed the students in an interesting speech and wished them all success in after-life and a happy holiday. A group photograph was taken and the meeting terminated.

THE MADRAS ANJUMAN.

The 29th annual meeting of the Anjunan, Madras, was held in the Victora Public Hall, with the Hon'ble Sir John Walls in the chair. The meeting was largely attended. The Secretary read the Annual Report which was adopted. The Chairman in the course of an interesting speech said:

An intitution of this sort cannot stand still, and the difficulties of creating an efficient technical school will be always with us and have always to be combated. One of those difficulties is the vecanot always get boys to remain long enough to acquire the full benefit of the course, because they are tempted away by the prospect of more remuerature inmediate employment than we arrive them. That is the great Canger which attends the new acheen which we are trying and against which we shall have to fight to the utmost of our capacity.

INSTITUTE OF EXCINEERS.

An interesting paper on Technical education in India was read as a meeting of the Galectias Section of the Institution of Electrical Engineers, by Mr. F. J. Robins. He gare a description of the course of training "such could profitably be course of training "such could profitably the course of training pared his Matriculation extraination of the Course of the Paper of the Course of the Course of the Course of the Paper of the Course of the Course

Once in the workshop the student's desting is a good deal in his own hands. The very best proof of an apprentice's success in the shops, and the most reliable indication of his merit, is the offer of a persanent job at the expit of his time; if he is considered a bed indifferent swaker and no use can be found for his services he may be looked on as not having achieved a great measure of success.

Absociation for the Advancement of Scientific and Injustical Education.

The ninth annual meeting of the Central Council of the Association for the Advancement of Scientific and Industrial Education of Indians was held at the Town Hall, Calcuta. About sirty members of the Association were present among those present were Maharajas of Bordwan and Nashipper, Nawab Sujat Ali Berg, the Hon'lle Mr. K. K. Chanda, the Hon'lle Mr. K. K. Chanda, the Hon'lle Mr. K. K. Chanda, the Hon'lle Mr. B. Hon, Meeers. A. Rasul, Infisk, and J. Chandhanir. The Hon'lle the Maharaja of Bordwan, President of the Association, took the chair

The annual report was read by the Maharaja of Nashipur, and a number of resolutions were adopted. His Excellency Lord Carnichael came and inspected the ratious articles exhibited. The Maharaja of Burdwan gave sound advice to the students and the meeting came to a close.

Reviews and Notices.

"Achievements of Chemical Science," by James C. Philip, M.A., D.Sc., Ph.D., 18 Ond of a series of books poblished by Messes. Machillan & Co. upder the orweal tilles "Readable Books in Natural Knowledge."

Starting with a brief summary of the pioneer work of Priestley, Cavendish, Lavoisier and others which laid the foundations of Chemical Science the author discusses in some detail the primary sources of power or the different kinds of fuel applied by Nature and the different forms into which there are often converted by man on the score of economy or convenience. In the 6th chapter enough is said to convince the reader that it has often fallen to the lot of Chemistry to soggest remedial measures to safeguard the lives and health of industrial workers anguard in certain dangerous trades and occupations. The two chapters that follow clearly show how the advance of chemical knowledge has lead to the attlication of the waste products of certain industries as starting points in the manufacture of many useful and valuable bys-products. The two speceeding chapters show to what a great extent annibatic chemistry has already accreeded in the artificial production of several morganic and organic natural products whose supplies from

Natura's laboratores is deficient or fifted. The invaluable anders of the services resident to scousty by the scalifical chemist is the central tame of the lith chapter. The lith chapter brings home to the resider that "the power of littles" is a great in chemistry as anywhere the contract of the carefully made and followed up often lead to acarefully made and followed up often lead to results of a far-reaching character and how the results of the supplied source of a subarquest way for the supplied source of a subarquest way for the supplied source of a subarquest way for the supplied source of a subarquest subarquest supplied source of a subarquest supplied source of a subarquest supplied source of a subarquest subarquest supplied source of a subarquest subarquest supplied source of a subarquest subarq

This little book neatly got up and with good portraits of some of the most eminent chemists is sure to stimulate the interest of the reader in chemical science by belping him to realise the important part played by chemical forces in daily life and in the life of the community. The numerous examples of great men who at the risk of personal comforts and worldly profits devoted their lives to unselfish search after truth cannot fail to magnire the reader with higher ideals and nobler aspirations We can therefore cordially recommend this book to the students in the higher forms of our High Schools and the lower classes of our Colleges and hope that copies of this book will find a place in every High School library,

LESSONS IN CITIZENSHIP, BY H J WALDEGRAVE (NELSON AND SONS) 1s 6d net

This is a recent addition to the volumes prepared in accordance with the syllabor of the Moral Instruction League, and like its predecessors of the series is intended for the use of teachers It follows closely the details of the syllabus laid down for Standard VII for pupils of 13-14 years of age It is more suited to the conditions of life prevailing in England than to Indian conditions and the illustrations are all taken chiefly from English history Still the principles it is intended to inculcate are common to all carilized countries Unlike other books on civica it is not a mere description of the system of government prevailing in the country, but seeks to teach the duties of a citizen. feeling of civic duty is particularly weak in it dia and it is therefore highly desirable that a sense of individual responsibility as members of somety should be unitirated in our students We have to teach our youth to become first and foremost good cit zens, as they have to take on

them the responsibility of managing business, public and private, of taking their part in politics and in municipal life, in originating laws, sitting on tribunals, etc., especially now when we bave been given enlarged Legislative Councils, and the right of electing a large number of members in them, and educated men are claiming more and more the right of self government and a larger share in the administration of the country The very first chapter in the book is on the nature of voting and the responsibilities of the voter in exercising this privilege It is unnecessary to dwell on the importance of such a knowledge to every one seeing that a large number of people, literate and illiterate, have the privilege of electing not only members of Taluk and District Boards and Municipal lities but also of our Legislative Councils The author seeks to help the teachers in leading that pupils to understand why people should pay taxes to Government, why the law should be respected, how society is an organism in which the well being of each and every member is the concern of one and all, and to develop in the students the ideal of human brotherhood-n short, to "teach the papils to think of the "We rather than the 'I'" It is impossible to exaggerate the importance of such a book in the modern life of the Indian people and we wish that some capable educationist would write a book on the lines laid down hera adapting it to the present conditions of India

CHARACTER IN THE MARING, BY ABEL JONES, M A. (JOHN MURRAY) 26.

The problem of keenest interest to the edu cationist in India to day is the proper development of the character of the young ones in schools and colleges The recent resolution of the Government of India on education placed the subject in the forefront of its contemplated Mr Jones's Character in the Maling comes at an opportune moment to teachers in this country, and we have no doubt that if the moral education of youths is regulated by the principles enunciated in the volume, the results must be of the most encouraging kind. An appreciation of the conditions affecting the development of character is absolutely necessary for the teacher who professes to impart moral itertuction and we cannot concers of a better book for the purpose than the one under review. Mr Jones is no faddlet forgetting his sense of perspective under the stress of too much enthusiasm for the moral life. He is as calm and scientific, as be is stimu.

lating in interest. There is a hearty attempt at the practical interpretation of chiracter and remarkable cate is exercised in warning the reader from pursuing the good too far. The book is an admirable manual which must find a place in all school libraries and prove of the greatest benefit to teachers as a class.

CITIZEN OF THE EMPIRE, BY JERNE L. PLUNGET (ORFORD UNIVERSITY PRESS) 1: 44

The principles of citizenship do not lend them selves to attractive treatment in the elementary classes The Oxford University Press supplies by this volume a very efficient manual for teaching the subject. The manner of exposition is quite snited to the young minds to which it is intended There is a spirit of cheerfulness pervading the volume and there is a laudable attempt at the infusion of a spirit of pride in the empire. The details of every day administration are brought before the student by means of a series of inter esting pictures. Their association with things with which children are generally familiar is a sure means of guaranteeing their being remembered by them There are a very large number of interesting and educative illustrations.

Oxford Elementaby Books Old Time Tales, by Lewis Marsh, MA, Tales of the Faures, by Lewis Marsh, MA (Oxford University Press) is each.

The two volumes consist of romantic stories, a pintensity selected and attractively told. A special feature is their relation to the mythology and folk lores of varied nations: representing diverse systems of civilisation. It is probably not too much to any that one of the surest nestes of inculcating cosmopolitan sympathy in the young mind is by interesting is in the legeods and jalklore of other nations. The Oxford University Press is evideally best upon making the books as attractive as possible. The illustrations and the get up are excellent, and the books are a marter of cheapness. We are afforglad to inclean them one or two stories relating to India.

GREEL LEGENDS, PT MARY AGYES HAMILTON (TRK CLARENDON PRESS). 2

It is hardly necessary to point out that a knowledge of Greek mythology is one of the

most assential things for a well regulated scholastic course It is not possible for toe young student to make any creat progress in hterature without being troubled constantly by allusions to tales in Greek mythology at every step The student probably imbibes some knowledge of Greek legends by their occasional treatment in books But Mary Hamilton brings together the most important of them and tells them in a simple attractive manner for children Such a systematic and comprehensive survey of Greek mythology must be of the greatest value to the We have great pleasure in recommending the book to teachers in this country. The price is however a trifle high considering the nature of the publication

NOBSE TALES BY EDWARD THOMAS (THE CLA-

We had the privilege sometime ago, of reviewing a collection of Celtie Tales by the same author and we now welcome this book of Aorse Tales with equal pleasure William Morris has already worked in the precious mine and has enshrined the most valuable in them in undying poetry. Mr Thomas does the more humble service of narrating the tales in prose but he does it with remarkable power and discrimination. It will serve as a very useful hand book, for study and reference But it is also sure to be of use to the serious and more advanced student, who desires to enter upon a comparative study of early English and Norse Lateratures which are bound by numerous ties of kinship Mr Thomas has been enabled by his special scholarship in the line, to make his volume thoroughly reliable

A SHORT RISTORY OF PAGISH LITERATURE, NT., SAINTSBURY PARTS I-V (MACMILLAN & Co.). 24 each.

Professor Santsbury a book has been too long a classic on the subject to need any fresh review of its ments. Reavening the Sgreanse of English Press. Sight peras ago, Walter Pater expressed the appreximation by the remark that it required a really great scholar to do the work. The remark spiles with greater force to this well known chronicle of literature which has been a monument of the most admirable scholarship and cut cal discrimination. We are aware of the ments of all the histories of English Latestare that can be used as College English Latestare that can be used as College.

manuals, and have no hesitation in saying that this is the most comprehensive and authoritative exposition of the subject Mr Gosse has indeed a more attractive manner and Mr Lang has an occasional felicity of expression which is a qualifi cation of no ordinary importance for his work, but a student of English criticism will find the most praiseworthy sanity and balance of mind only in Saintsbury a pages The inter chai ters supply a connected survey of the development of Fugl sh Literature in all its aspects The publication of Suntshury a manual in parts will be welcomed as a real convenience by students. The volume or toys a very large measure of popularity in the Uni versities of this country and we have no doubt it will go on increasing as long as the study of the histo y of English L terature has any place in their curricula

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PUBLICATIONS RECEIVED.

- Elementary Economics, by S J Chapmann, M A. London Longmans. 2s net
- The Last Century in Europe by Hawkesworth MA London: Edward Arnold 5: net.
- The Oxford Geographies, Vol. V North America, etc., 1s 6d., Vol. VI The Three Southern Continents 1s 9d. The British Empire Oxford: Clarendon Press 2s 6d.
- Matriculation French Essays, by H G Chaytor, M A. and W G Hartog, M A London University Press 1, 6d
- Intermediate French Reader London University Press 2s 6d
- The New Junior French Course by G A Roberts, M A. London University Press 2s 6d

- Ozford Elementary Readers Isreme Plunkets
 Cittens of the Empire, Is 4d, Old Time
 Tales by Lewis March M A, Is, Tales of
 the Faittes, by Lewis Marsh 10d, Greek
 Legends by Mary Agnes Hamilton, 2s,
 Norse Tales, by Edward Thomas, 2s Bombay;
 Oxford University Press.
- Reform Arithmetic Teachers Book No VI (Grls Fdnion) by Pollard Wilkinson, BABSC FRAS and FW Cook, ACP London; Macmillan 9d.
- Tales from the Story of Indis, by P T Stim vas Iyengar M A Bombay Oxford Univer sity Press 10 gs
- Examples in Algebra, by H. S Hall, M.A. London Mucmillan 2s.
- Eessy wr ting Rhetoric and Prosody, by Egerton Smith MA IES Bombay Oxford Uni versity Press Re 18
- Practical Hints on the Direct Method of Teaching English, by V Venkatarama Dikahadar
- VII Annual Report of the President of the Car negie Foundation for the Advancement of Teaching

 Indian Arts and Industries, Vol. XV, Issue of
- January 1913 London W Briggs & Sons.
- A Book of Historical Poetry London : Edward Arnold Sd
- The Children's Story Books Donkey Skin and Tales from the Midi, by Alice M Bale, 6d., Tales from Grimm, by Alice M Bale, 6d., Little Red Riding Hood, and Other Stories by Alice M Bale, 6d London Mazmillan
- The Children's Classics, Nos 33 and 34, 3d each London; Macmilian

Indian Educational Motes

MADRAS

P H S. Literary Association -The First Appropri sary Meeting of this Association was recently held in the Pacharyappa's Hall, with the Hou'ble Mr Justice Trabji in the chair, when Mr C P Ramaswami Aiyar delivered a lecture on 'Moral and Religious Instruction in Schools" The report was read by one of the Joint Secretaries Mrs. Besant and Mr. S. V Sabramaniam addressed the meeting after the lecture by Mr. C P. Ramaswami Iyer was over The Chairman in concluding the proceedings of the Meeting said that eminent people bad thought that intellectual advancement was nothing when com pared to moral advancement. They should go ahead in the development of their character. He then congratulated the Society on its efficient work and wished it success in future. With a vote of thanks to the Chairman and the Lecturer the meet ing terminated

Teachers' Association -The twenty third annual meeting of the Teachers' Association Teachers College was held recently in the College Hall, Saidapet The meeting was preceded by a social gathering, the proceedings of the Meeting commencing with recitations The Secretary read the report of the Association for the year 1912 1913 The report traced the history of the Association from 1910. the year of its origin up to the year under report. The Association is divided into three Sections-Mathematics. Science and History, each section being in charge of a Secretary of its own The strength of the Association at the close of the year was 93 and the average attendance was 83 per cent. There were 18 General Meetings of the Association. 11 meetings of the Mathematics Section, 12 of the Science Section and IJ of the History Section The Hon'ble Mr Justice P R. Sundara Iyer delivered a valedictory address With the usual vote of thanks to the chair proposed by Mr H S Duncan, the meeting terminated.

Madras Literary Society—The annual general messing of the members of the Madras Literary Society was held recently in the Society aprenies under the presidency of His Enterliency Lord ware present and the proceedings were of a very interesting character. The Honorary Society Mr W F Grahamo read the annual report. The Honble Str. John F Walls moved the adoption adoption of the report and the proceedings were supported to the character of the support of the society of the support of

Pachalyappa's College.—The Seventieth Anniversary Meeting of Facharyappas Charities and Prince distribution took place recently with H E Lord Pentland in the chair. The meeting was attended by a very large gathering, and the body of the ball

was packed with an enthinasatic assembly of struchnis Among these present were the Hon bie Sir Rajoh Benson, Mr Jostice Tyaby the Zamudar of Kapitewaran, Mesera E F Jantin, S Ranasawan Kapitewaran, Mesera E F Jantin, S Ranasawan Lyen, C P Ratusabaran Lyen, C P Ratusabaran Lyen, C P Ratusabaran Pilar, V Tramalar Pilar, Pandi Vidyasagar Paudis Pandit D Gopala Charlu, the Hon ble Mesera T V Senhagun Iyen, B N Sarma, Pelandi Mandaran T V Senhagun Iyen, B N Sarma, Catan Muddiar and M Audonaryana Aya, Ree Bahadar A C Pennatharthian Iyen, Khan Rahadur Gholam Muhmamad Mahajir Rao Sahu V. A Perthasarathi Muddiar, Rao Habadur P Paratkesen Buddo Reo Sahuh S Dharasandam Pilar, kosan Suddo Reo Gobb S Dharasandam Pilar, kosan Suddo Reo Sahuh S Dharasandam Pilar, kosan Sahuh S Dharasandam Pilar, kosan S Dharasa

Their Excellencies Lord and Lady Pentland were received by the Trustees and the Principal at the entrance and conducted to the hall upstairs

The commemoration address of the Board of Trustees, was read by Dewan Bashdar M. Read of Trustees, was read by Dewan Bashdar M. Andrews Trustees of the Charities and Mr. Rollo, Principal, their read the Charities and Mr. Rollo, Principal, their read their respective reports. The financial condition of Pachasyapas Charities during the period under Charities and Cha

Her Excellency Lady Pantland then distributed medale and books to the prize winners. At the conclusion of the distribution of prizes, His Excel lency made a most interesting speech, and said It seems to me, as a well wisher of education, that this is an institution in the highest degree deserving public support. I am sure that we wish to see it thoroughly equipped, to hold its own in competition with the other colleges in this city and throughout the Presidency not only in academic laurels but in every branch of its service, in the Commercial School, in the Industrial School, and in the other schools attached to it I am glad to think that it holds its own also in the matter of athletics, for I have before me here a row of athletics, tropbics, which are held by this College,

Imperial Grants for Education—The Occament of Madras have use published an order, dated 27th ultimo, approxing generally of the proposals of the Director of Pablic Instruction for the unisation of the special Imperial grant to the aggregate of the special proposals will form a suitable working basis for the coming year. The emergea-

down has been communicated, states the order, "to additional Members of the Legislative Council in order to give them an opportunity of comment and suggestion at the ensuing Meeting of the Council"
This grant of Rs 23 lakks is comprised of two portions, one the non recurring portion of 16 20 lakbs, being approximately one third of a grant of 49 lakbs the expenditure of which has to be spread over three years and which cannot be funded under financial rules and the other the recurring portion of 680 takhs As regards the 49 lakhs the Government of ludes have specified that the following should be the plan of distribution -Colleges and Secondary schools and Training insultations (a portion to be used for the Engineering College) 6 lakhs . Elementary schools, 17 lakhs . Educational bygrene, gymnasia, play grounds, swimming baths, gardens reading rooms, common rooms, etc. 6 lakbs, Manual training, 11 lakbs, Girls' echools. technical and special schools 6 lakhs, European education, 51 lakhs University, 3 lakhs, Hoetels The Director of Public Instruction has proposed that 16 20 lakes of this grant which has been set apart for expenditure in the next financial year, be expended as follows the provision of slates and books for poor and backward populs, 2 lakbs, and cooks for poor and onceward papers, a manus, establishment of temporary training schools opera-ting for 2 or 3 years, 1 lakh and buildings (for Board and Municipal schools boys and gris, 8 lakhs, Engineering College 1 lakh, Turversity, 1 lakh, Colleges and Hospitals, 2 lakhs, 12 lakhs. As regards the provision of slates and boose, the Director says that the absence of such a provision had been urged by various Inspecting officers as a very potent obstacle to larger attendance at schools already in existence. Other measures such as exemption from the payment of feex and the offer of small prizes and scholarships for attracting more attendance are dismissed as being impossible for they would entail recurring expenditure. The balance of 1 20 lakes is proposed to be held in reserve for any other scheme which may be matured within the next few months. It would appear that a small Committee is proposed to be appointed to inquire as to what educational expenditure should be incurred as to bygiene and cognate matters. As regards the extra recurring grant of 680 lakes the Covernment of India have suggested the following plan -Primary education, 350 lakha; Girls' aducation, 87 lakha, College and training institutions, 20 lakes, Secondary education, 135 lakes; Technical and special education 0.9 lakba, Manual training, 12 lakba, European education 57 lakba. In regard to the first of these heads the Director proposes to distribute the amount among the following objects; (1) securing a larger measure of freedom from payment of fees to the case of poor and backward pupils by adding considerably to the present list of backward classes or cases on the basis of 1911 census, (2) increasing the emoluments of trained teachers by increasing the rate of annual grante per teacher by the following amounts : lower elementary grade Re. 6. higher elementary grade Bs 12 and sroondary grade Ba 24 in the case of

teachers in institutions under public management. the grapt of capitation allowance to schools with the fourth and higher standards being estended, these measures being intended to increase the number of higher elementary schools, (3) provision for coming higher standards in some of the existing schools, and (4) provision for extra teaching in existing schools under public management, Iscal Boards and Municipal Councils will be given more money for enabling them to start more new girls schools The Director says that the available funds will suffice to do only a little in the direction of carrying education in the more advanced stisting schools to a higher stage, for arranging for a certain number of more highly paid mistresses, for improving the facilities for training women teachers and for making special arrangements for educating and training more child widows who might become teachers A portion of the grant for college and training institutions as well as of that for secondary schools will be set aside for scholarships in college and training schools and general aducation h purpose As regards secondary schools, Dr Bourt as tells us that the bulk of the grant will be distribled and among aided and Local Board and Municipal Parameters that a will secondary schools He tells us further that alteration made in the Grant-in-Aid Code must based upon the amount available and "they wil very simple in nature and intended to all the Managers to rely upon such larger share of the expenditure as the funds will permit. The Direct ser expenditure as the numbs will permit. The Direct of survives suggestions as regards the best way for name up the grant for technical and spine education, dust indicates that it may be utilized so small technical institution at Davalashwa as elsewhere

S I T. Union.—H E Lord Pentland on : Edw sputstion from the South India deputation from the South India Teach Government House. Capt II. Colinker conducted the deputation consisting at conducted the department constitutes M. A. F. Gardiner. President of the Ace M. J. P. Cotelingam, M.A. Vice-Pres M. J. P. Cotelingam, M.A. Vice-Pres M. J. Lakabimi Narasu Naido, B.A. Mind Oth Chariar, B.A. J. T., Mr. K. B. Ramangon: Ma Lt. and Mr A. Pauchapakesa, General Secretary, to the Drawing 3 and 34 Excellency received them. The Hd Bourne and Mr C B Cotterill, Pri were also present. The Rev A. Fi read an address, and at the conclusiing of the address, it was presented leggy in a very bandsome circular His Excellency made a suitable replipressed and assured the sympathy of the ment towards the requests they had my introduced to the members of the remained conversing with them for -The deputation then withdrew.

A Students Gathering -The Madras students of the International Correspondence Schools of London were in full force at the Horticultural frardens to moet the General Manager for India. Mr Arthur W Wise, and to welcome the newly appointed District Manager Mr J W Hoyle Mr W Wise welcomed the students and their friends and gave an interesting account of the very valu able work turned out by I C beloos He then requested Mr John Adam who was present to address the gathering Alluding to the value of technical education Mr Adam gave most interesting reminiscences of the start of a commer cial school in this city, and related the difficulties they had had to contend with at first but stated that finally the results achieved more than compensated for the difficulties met with and overcome. He mentioned the names of several Indian gentlemen who were at the time of the reception of the com mercial school practically unknown but who now occupy responsible positions in the commercial world, and who are considered authorities in the particular branches which they have adopted The principal among these be said are Mr K Subramanua Iver and S. Vaidynatha tivar both well known to all present

Conjecturam Girls School—The nonversary conjecture of the Conjecture Hands Gurls School Uniting of the Conjecture Hands Gurls School Uniting of the Conjecture Hands Gurls School Uniting the Conjecture of the West Hands Han

she school and gave an interest or specification school and gave an interest of specifican Bahadur L A Govindaraghava Iyar proposed total of thanks to the Chairman and the meeting the grommated

The Assertion Model School—A very interesting and honoration Model School—A very interesting a programmer of the Control of th

the "lift opened the area maures overposesson. The acting was a lift of the state o

ent were Dewan Bahador K. Krishoaswami Right Lie Mr T E More, Mr R G Grieve, the With the Mr P S Sivaswami Iyer and Messre P Sankyaryan and A Subramania Iyer Some of the

members of the inspecting agency of the Educa tional Department were also present, Mr P L. Moore requested His Pacellency to formally open the school His Licellency then opened the school with a siver key amidst loud applaces and His Freeliency and party ben made a full inspection of the buildings which was fitted up with the necessary equipments for a school, and then moved to the school garden and play-ground admining the main buildings of the echool. Some of the school children then sang welcome and lotal songs in Tamil His I roellency and Mr A C Pranathar thibers Iver made interesting spreches on the importance of elementary education Mr A C Parthasarathi laidu proposed a hearty rote of thanks to His Freelleney for having kindly opened the school Mr V C Seeha Chariar called for three cheers for The r Excellenc es and they were responded to in a most enthusiastic manner

The gethering depresed to the strains of Mangalam and the National Anthem

Government Submides —The Government have been pleased it senature the distribution of a fur ther sum of Hz 37450 to the undermentioned Monnepalities and Datrich Boards for expenditure and the payment of a sum of Hz 70 to the Dutrics Board Auties for the equipment of a school newly opened. The Accountant General has been requested to place the amounts specified at the disposal of

MUNICIPALITIES.

Mangalore Re 2 Lo Cannanora* 000 Tellichery 1000 Palghab 1 Jó O Teltoro 1,000 Manuargard 1000 Cadapah 1 Jó D Teltoro 1,000 Manuargard 1000 Cadapah 1 Jó D Nandyal 8 2000, Anakapali 6 So Cannaha 1 Jó D Nandyal 8 2000, Anakapali 6 So D Nellore 1000 Nanipapatah 5,000 Nellore 1 Jó D Changlepat 500 Cocanada 500 Nellore 1000 Manupapata 500 Ternaha 1 200 Dillary 1,500 Cannaha 500 Nellore 1 Jó D Changlepat 500 D Ternaha 1 200, Palamontal 1,500 Canada 1 Jó D Changlepata 500 Ternaha 200, Palamontal 1,500 Canada 1,500 Manupapar 6 Jó D Ternaha 200 Manupara 1,500 Canada 1,500 Manupapara 6,500 Ternaha 2,500 Manupapara 6,500 Ternaha 2,500 Manupapara 6,500 Canada 1,500 Canada

DISTRICT BOARDS

Ausstapur Bs 12000 South Arcot 9000 Reliary 10000 Canara (South) 10330 Chingleput 10000, Lhittoor 8000 Combatore o 000 Caddapah 7000, Garpan 7000 Godsvar 8000 Guntar 10000 Katoa 17800 Aornael 2000 Histora 5000 Milabar 4000, Nellere 6000 Ramad 6000 Salem 5000, Tanjore 10000 Trichinopoly 12,100 and Vizegapatar 7000

Madanapalli High School -The Telogo New Year's Day was celebrated on the 7th instant in commemoration of the twenty five years 'run in the life of the Madainpalle High School The organisers of the celebration were the students of the mixturion headed by Mr. K. S. Koppu Row, B.4. an old student of the High School The students absorbed to meet the expression on that day. The meaning was very injectly stonded The buildings and the students of the studen

Pachalyappa's Telugu Literary Society—The Scood Answersary of the Andria Bassiashi Ranjani Samayam was celebrated in Pacharyappa a lial under the presidency of the P Nagabusha-lail under the presidency of the P Nagabusha-good one of the Secretaries submitted a very interesting copport of the scientists of the Samayam dering the past year. There was then a presentation of a modal to like A nakaman, and of choice feliging modal to like Ankaman, and of choice feliging the second secretary. Writing and Rectation of classeal Teliogo Essey, Writing and Rectation of classeal Teliogo was the learned and critical discourse on 'Talego was the learned and critical discourse on 'Talego Leferary Griticals." by M. & R. Brahmarya Sairi

Striangam High School —The Ninth Annuers of the High School Students Union, Strang of the High School Students Union, Strang of the High School Students The School Hall, with Down Rabedor T Unescatter, A., p. 1, in the char After the reading of the Annual Report by the Secretary which showed a School Students Of the Annual Report by the Secretary which showed as P. Rengeschart a. p. p. 1, P. U. S. Drepty Collector of Kollegal delivered an interesting lecture on the Study of Lintery The Charman in a few the Study of Lintery The Charman in a few that the Study is the Lintery The Charman in a few that the Study is the Lintery The Charman in a few that the Study Linter and Suggested that accept the the High School Students' Union Scotty like the High School Students' Union works, adding to it epprey containing historical transfer of the Students' of the St

the chairman the meeting terminated The Senate and the Vernaculars —

Visagapatas —At a public meating of the citizene of Visagapatam held in the Victoria Diamond Jubiles Town Hall, Visagapatam, on the Rud instact, to protest signates the decision of the Madras University undaing the study of Chastical and Vermacolar languagese optional for the Intermediates and BA pass courses, the following resolution was passed —

students of Indian History could not prize too high With the usual vote of thanks to the lecturer and

That the Meeting of the citizen of Virgappatam protests against the decision of the Suescot the University of Madras, refusing to make the study of the Classical or Verascolar languages compilery for the Intermediate and the BA pass courses and requests the Government of Madras to require the Senate to reconsider the decision in adopting the report of the Committee.

Chidambaram — Under the auspices of the "Sennamil Sangam," Chidambaram, a public meeting of the readents of Chidambaram was convened in the premises of the Town Jecomplete becombary School, Chidambaram, with Mr S II M M Ramasam Chettiar in the chair. The Chairmos explained the objects of the meeting in an impressive speech and their resolutions were passed

Geomoda—Under the auspices of the Interry public meeting was the first public meeting was the first public meeting was the first public meeting was the decision of the Seminary process and propers signate the decision of the Seminary public meeting was the courses of study. Mr. J Maliparaji, S.A. S.C., was voted to the chart Chairman in opening the proceedings, made and stated of the chart of the seminary control of the seminary contr

Kumbakoram—A public meeting was held in the Porter Fown Hall with the Hon ble Rao Bahadar V K Ramanoja Chariz in the chair, to memoral izo Government as regards the recent resolution of the Madras University Senate about the Iedias Vernacular Resolutions were passed.

The Churman then spoke on how the general public could cooperate with the specialist un the improvement of the Vertaculars, and added that the protest should take the form of publicly deappreving the action of such of the Indian members of the Seate who had voted in favour of the Seate who had voted the Seate who had voted in Tambi, termanated. Aft K.A. Ramanada Iyrr, of Madras, was also present at the meeting during the discussion

Prodation.—A public meeting was hold in the Town Hall Frodation on the 27th atomic to protest sgames the recess decision of the Senate of the Senate of the Senate of the Senate of vernaculars in the corricols of studies for liter mediate and BA courses Mr K Krishan Bag, NA-LT, of the local High School, presided, and a number of resolutions were passed

Tauger — A noble mesing was held an the bank of the Vadara un actouity there for the purpose of discussing the Resolution of the Medical University Seaste making Vernacular sized optional in the course Mr T Sambamoorthy Ref. who presided, made a short introductory #Windows of the Proposition of th

Palghat—A special meeting of the Malayalam Academy was held on the 6th instant, in the Native High School Hall, to protest against the reast decision of the Senate of the University regarding the position of the Indian vernacolars in the curicula of studies for the Intermediate and the BA.

Course. On the motion of Mr. M. P. Kannan Mr., F. Kannan Mr., F. K. Roubicuta Thambour Mr. R. Kombicuta Thambour Mr. R. Kombicuta Thambour Mr. R. Roubicuta Thambour Mr. R. Roubicuta Thambour Votal to the chair. The Chairman in a short and nest speech explained to the addiness the object of the meeting, and urged upon them the necessity of their entering a protest against the decision of the Stanks. A number of resolutions were then carried unanimously and with the numal vote of thanks the proceedings terminated.

Pudukofah - A largely attended public meeting of the citizens of Pudukotah town and suburbs was held in the premises of the Veda Sastra Patasala, to protest against the recent decision of the Senate on the study of the vernacolars. Amonest those present were :- Messre S. Radbekrishna Iyer, BA. FMU. G Sunderasa Sastrial, BA. BL. Babadur J. Dharmaranga Raug, A. Mabalinga Iver. BA. V S Krishnaswami Aiyangar, BA, BL, and S. Naravanaswami Iyer, M.A. besides several others. Mr. G. Sunderssa Sastrial, who was voted to the chair, made a few introductory remarks explaining the objects of the meeting and observing that since the Indians were accustomed to their own vernaculars, from their early childhood, they would be losing their national characteristics if the study of vernaculars was not made compulsory. Resolutions were passed and the meeting came to an end,

CALCUTTA.

. Director of Public Instruction - A Communique of the Education Department states .- On the recommendation of the Government of Bengal and the Government of India, the Secretary of State has appointed Mr. Hornell, formerly of the Indian Education Service in Bengal and now occupying a responsible post at the Board of Education in England, to the Indian Education Service Mr. Hornell is also appointed Director of Public Instruction in Bengel for five years. The Government of Bengal and the Government of India contemplate an active policy of improvement and expansion of education in Bengal particularly in Primary and Secondary education. For carrying out this policy the Government of Bengal required an officer with special experience and qualifications and knowledge of modern developments in education. While recognising the attainments of officers serving in the Province, the Local Government considered that none had the special experience and qualifications required They therefore applied to the Government of India under the terms of the Government of India Resolution No. 679, dated the 12th September 1906, and suggested the appointment of Mr. Hornell who possessed in an exceptional degree the experience and qualifications required for a period of five years only in order to carry out the desired reforms. The Government of India while recognizing the attainments of several membern of the Indian Educational Service were unable in the special circumstances of Bengal at this juncture to make a suitable selection from the ranks

of the Indian Educational Service in other provioes; their decision involves no departure from the declared policy, the procedure of which had been arrively followed and certainly there was no reflotion on the professional capacity of the members of solely by the posuliar cased of Bengal at the present time. Mr. Horsell having been in tonch with modern developments of education in England and having served he Impector and Assistant Director qualifications for the page. Hoded another found qualifications for the page. Hoded another found Givernment has recently applied for his services as Director of Public Instruction in that Province.

The Presidency College -A distinguished party of European and Indian ladies and gentlemen met at a Conversazione held in the Baker Laboratories of the Presidency College. The distinguished guests included His Excellency the Governor of Bengal and Lady Carmichael. Arrangements were made to hold, in the different rooms, a number of simple experiments and demonstrations, in which the guests took great interest. The list of the experiments shown was as follows :- In Histology room-Method of preparing objects for the microscope and the process of cutting extremely thin slices (1/2500 of an iach !); circulation of the blood; the sucking power of transpiring plants; life in a drop of water; flow of living matter in vegetable cells; various objects under miscros-copes. In the Optical room—Mixing colour sensa-tions; how to take magnified photographs of exceedingly minute objects; measuring one's field of vision; how to examine the interior of the eye; flame picture of voice In the Lecture Theatre-Lantern demonstration :- Complementary colours of shadows; a process of colour-photography. In the Preparation room-How to measure one's bloodpressure, breathing capacity, strength of muscular contraction and acuteness of touch. In the Experimental room-The experiment that gave birth to electricity; graphic records of :- Fatigne of muscle; the character of heart-bests, autographs of the pulse; how emotions affect breathing In the Research room - Psychological experiments :- Measuring " personal equation " for sight, touch, hearing and mental calculation; graphic study of fatigue and the conditions that influence it; massage by electric vibrator; X-Ray apparatus. Keen interest was taken in the experiments by the guests. Their Excellencies appeared to be thoroughly interested in everything which was calculated to add to the auccess of the function,

The National Council of Education — The principal education, Bengal, was held at 4 Fardabati Villa, Mararipaker Road, Manictolia, Ri. Justice Choudari presiding. The reports presented by the Secretaries were on the whole satisfactory and showed progress during the past year. The Rector.

Mr P. N Bose and the Chairman gave interesting speeches

Victoria Institution - The annual distribution of prizes of the institution took piace at the school premises under the presidency of the Hou'tle Mr P C Lyon, Cal, when Her Excellency Lady Carmichael was kind enough to distribute the prizes. There were present many respectable ladies and gentlemen of the city At the request of the Prestdent and gentlemen present, Her Excellency made an interesting speech amidst loud cheers. After a hearty vote of thanks to the chair, the meeurg separated

The Research Scholarship -The Research Scholars named below are re elected for another year, the place of work being the Presidency College, Calcutta Khiti Bhusan Bhaduri M.Sc -Subject -Chemistry with special reference to the subject of molecular conductivity Bhujanga Bhusan Mukherjee, MA -Subject -Indian Leonomics with special reference to the subject of the growth and development of Indian Figures Sarat Chandra Jens -Subject -Inorganic Chemistry with special reference to the subject of ferments and fermentafrons.

Shahzadpur H E School .- A handsome building grant of Rs 21580 has been sarctioned by the Government to the Shahzadpur High School for the construction of its " pucca" buildings estimated at Rs 32 000 A bill for Rs 7,150, being one third of the total grant, has been already passed and the building work is shortly going to be commenced The Tagore Zemindars of Calcutta have kindly made a free gift of the School land and promised to pay Rs 1.000 towards the building fund The public are indeed very thankful for their Lind patronage and generosity

BOMBAY. Education in Bombay.-The Bombay Government have praced the quinquential review of education in the Presidency It states that during the period covered the total number of educational institutions of all kinds rose from 18 967 to 16 460, while the number of their pupils increased from 720,547 to 922 888 The latter figure represents 34 per cent of the total population of the Presidency and 22 7 of its population of school going age, the corresponding percentage at the commencement of the quin-quennial being 28 and 189 respectively. The becondary schools now number 559 with an attend ance of 74 601 scholars: 517 with 57,98 scholars In the come schools the 517 with 57,988 schools the advance, as might be number of such school to 12 763 and the fig. to 757 130 Dune appost educations;

indirect, from all

Rs. 13,617 000 an increase of 27 per cent Of the latter amount the Provincial revenues contributed Rs 539800 as sgainst Rs 4308000 at the commencement of the quinquennium The total expendisure from all sources on Primary education is now 58 lakhs or 42 per cent of the whole, and towards this provincial revenues contributed nearly 23 lakhs mostly in the shape of grants to Local Bos-ds and Municipalities

The statement prepared by the Bombay Government for the Royal Commission regarding the Indian Civil Service has been issued by the Government in a pair of blue books. The history of the recruitment system of the ICS is reviewed and the merite discussed at length, while the alternalive method suggested together with questions relating to sge and training of candidates are also carefully considered The general conclusions arrived at may be summarised as follows .-

The system of recruitment for the Indus Civil Service by the open competition examination in England has given efficient results

- 2 The subjects for the examinations cannot be improved upon.
- 3 The age of candidates might with advantage be lowered 4. There are drawbacks incidental to combining the Indian Civil Service examination with that for
- the Home Civil Service, and it would be an advan-tage if the former could be for men two years younger than the age for appearance for the llome. Civil Service
- CATH SETTICE

 5. Simultaneous examinations in India and Togland may be considered as impracticable. Drift are open to the most serious objectic, as for the reasons given from the point of reasons of the given to the translation system is founded. They won although examination system is founded. They won although a reconsideration of the system of the tryeomorphic form of the given of the present of the point of the point of the point of the point of the present of the point of

The Government proceed to propound a state of scholarships for assisting Indian lads to go England to prepare and compate for the examination on the present lines.

Pergusson College -Addressing the students of the Fergusson College on the occasion of the nice teenth anniversary of the College, the Honble Mr. Laliabhai Samaldas dwell upon the necessity of some agency to correlate the existing social movements educational as well as political. The growth of the base and the superstructure must, said the speaker go hand to hand. 'there should be intelligent thinking combined with the work and fields of work should not be confined to a few crites only The advancement in civil politics will be useless which can only be acquired by deep industry. In this connection the speaker enloyed the Servatis the India Society as the only Insitution whose members try to educate the people so as to bring them into a line with themselves. A regards the assistance to be given by individuals in the work of nations' progress, Mr Latlichan said that if we keep our social connences awake and work with will according to the dictates of our occurrence, we seed not despite of doing good and connecting, we need not despite of doing good and our windle good results we make the assistate time while good results we make the assistate time of while good results we make the assistate time of

TRAVANCORE

A Retiring Professor -The Maharajah's College in Travancore has been exceptionally fortunate in having possessed Professors who were not only good educationists, but men of character who wielded a wholesome influence over their students and won their esteem and affectionate regard. The names of Professors Ross and Harvey are still household words, for they were the proneers of higher education and their character more than their abilities have won for them an abiding place in the educational history of Travancore. Among the many men who were moulded by Professors Ross and Harvey is Professor LaBonchardiere was who obtained his early education in the Trivandrum schools, and who graduated from the Maharajah's College in 1878, passed his Master of Arts examination in 1879 and was appointed an Assistant Professor immediately Since that time 34 years ago Mr La Bouchardiere has laboured wholeheartedly in the College and has won the esteem and appreciation of aundreds of students, many of whom are holding high positions in South India and Madras City Mr. LaBouchardiere coached the late first Prince of Travancore for the B.A which he passed, has superintended the education of the obildren of H H the present Mabaraja, and has been Warden of the Caste Rinda tiostel where his knowledge of Indian life and character enabled him to give every satisfaction There has not been a public movement of any kind in Trivandrum for the last 30 years in which Mr La Bouchardiere has not had a large share of responsibility. He was appointed examiner for the M A. Degree in English for the University and as Chairman to the Board of Ex namers, and Honorary Secretary to various public institutions His popularity is great and his retirement from the Travanoure Educational Service is very widely deployed The Deway Mr Baiagopalachart recognised as soon as he assumed office in Travancore the anomalous and mequitable treatment given to Mr LaBonchardiere in comparison with his colleagues from England and unhesitatingly placed Mr LaBouchardiere on equality with them in rank and pay, and there is no doubt that in his retirement he will in consideration of his long and loyal service and his public spirited work, enjoy the same privileges in regard to pension A public movement to establish a memorial is on foot both in Travançore and in Madras.

Foreign Hotes. GREAT BRITAIN

National Education -A memorial, urging the Government to undertake at once a comprehensive reform of national education has been presented to the Prime Minister by a large number of well-known educationists. The memorialists, referring to Lord Haldane's declaration at Manobeater on January 10, say they realize that his speech raters educational policy to a higher plane, and believe that public opinion can now be roused to a serious consideration of this great problem. They price that large measures of social reform require for their full restitation the compelling power of lofty ideals which only a truly national education can inspire, and they believe that all sections of the nation are now more than ever disposed towards effective mutual endeavours to develop the intellectual, moral, and spiritual faculties of each citizen as the surest means of allerinting the present discontent. Education treated as an affair of the spirit would, they argue unite all the spiritual forces of the nation, and they, therefore urge that in order to meet immediate needs the serious concern of all schools should be the inculcation of those fundamental moral qualities upon which the welfare of States depends. The memorial goes on to ment that adequate provision for education in all grades, from the Primary school to the University. be made in every defined area of the population, and that the artificial barriers between grade and grade should be, so far as possible, broken down. memorial concludes by referring to the need for smaller classes, a broader curriculum, and more teachers, better trained and better paid, and proces that the State should assume some firmer guardianship of youth linking up the family with the school and instruction with wage-earning employment, whilst paying due respect to the rights of parents and the interests of employers,

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University College, London -The Senate of University College London, has issued an important memorandum upon the scheme of development of the college dealing with the site, buildings, and equipment, the steps now being taken towards their completion and the funds provided and required We gather from particulars which have been published in regard to the scheme that the extensions projected are comprehensive, but of vital importance to the welfare of the college University College is becoming more and more prominent in London as a school for the preliminary medical studies and for research Pharmscology and Physiology are adequately or even sumptuously bonsed, and Chemistry, when the new leboratory is completed, will be in a most favourable condition but Anatomy is still scattered throughout the college, and preently requires concentration with the other departments in the medical institute of the college. The estimated cost of a building suitable for it is £45,000. The school of applied

status ice and the Galton Laboratory represent a type of work in which University College has been a pioneer and it is proposed that these and the new school of erchitecture should be accommodated by completing the main quadranagle. Much of the money required for this is already available, but to complete the scheme £28 500 will be required The proposal to convert All Saints' Charch into a ball for the college should meet a real public need The college has nearly 1700 students, but their largest room the Botanical Theatre can only seat 400 The cost of the new hall will be £12 085 The chemical laboratories now in course of erection will place the college in the forefront of the chemi cal schools throughout the country. To complete it £28 652 is needed. In Egyptology the irfluence of Professor Pinders Potri and his assiduity as a research worker and a collector have made the college one of the few recognised centres for the sobject, and the authorities are anxious to take advantage of the opportunity that offers to porchase his collection at what is virtually the cost price of £5 985 In its library again the college is far ahead of most other institutions both by the quantity of its rare volumes and their arrange ment into special libraries. The work here is greatly restricted for want of funds and to make it thoroughly efficient and to carry out the necessary structural alterations £31 415 is required For engineering the college is asking for £10 500. while for various structural improvements £13 500 is needed. The total cost of the projected scheme is columated at £182,562. In the course of the memorandum the Senate point to the special ser vices that University College has rendered to nortanuba

Professor Dowden—General regret with seletate announcement of the death of Professor 26 at the announcement of the death of Professor 26 at who had occupied the chair of English Interstates in the University of Dublis none 1867, a period of 63 prays. Professor Dowden was born in Cowk in merit, and he marred first in 1868. Mary the doughter of David Cherk, and in 1868. Mary the doughter of David Cherk, and in 1868. Mary the doughter of David Cherk, and in 1868. Mary the doughter of David Cherk, and in 1868. Elizabeth West, Dam of St. Estricks Dubbis, by wheth lady he lawres one son and two dampliers. He was reduced the virtuals insofers and at Dubbis hap he was Clurk Lecturer in English Larestates at Tornity. College Combride from 1838 to 10 Iritual from 1838 to 1901 and a Member of the Anadem. Committee of the Royal Society of Lotesture. He filled also many other offices of Known to be sunce, and exclusive

LITERARY NOTES

The following are some of the recent and forthcoming books of the Oxford University Press .--

The Science of Etymology, by the Rev Walter W Skeat Litt D, 4s 6d ner, A Testbook of Elementary Triponometry, by R. S Heath, M. s. Das 3s 6d, Thoughts on the Present Disconlent, Speech on Conciliation with the Colonia, Speech on American Taxation by Barke, with Introduction and Notes 2s 6d each, A Handbook of Austomy for Art Students by Arthur Thomson, M L., M.B 16s pet The Early Education of Children by Laura L Plaisted 4s 6d net, Shakespeares The Tragedy of King Richard the Second, edited with Introduction, Notes Glossary, Appendixes on Staging and Prosedy and an Illustration of the Shakespearian Theatre, by Heary Newbolt, under the General Editorship of J O Smith 1, 64 mil The Indian Treasury of English Verse, selected and edited with Introduction and Biographical and and conted with introduction and Biographical Friplanatory Notes, by is G Dunn Ma (Otto) Re 1, Test Books in Chrimistry, by A M Kells, B Sc Pn D — Introduction to Practical Chemistry Sc 6d. net Manual of Practical inorganic Chemistry Qualitative and Quantitative 50 nets Hegel's Doctrine of Formal Logic, being a Translation of the First Section of the Succetive Logic, with Introduction and Notes, by H S Macran, 7s. 6d met, English Literature and the Classics ; Tragedy, Platonism Theophrastus Greek Romances, Ciceronianism Vergil Ovid, Satura, and Sencian Tragedy, collected by G. S Gordon 6s net. Sesame and Lines two lectures by John Ruskin, cessing and latter two lectures by John Starking deduced with Introduction and Notes by G O Whiskard BA, The Oxford Book of Victorian Verse, chosen by Sr Arthur Quiller Conch. Shakespeares The Merchant of Vence edited with Interest The Merchant with Introduction and Notes by H. M Percivel, MA. Re. 1 8 as , An Introduction to Psychology, more repectally for teachers by T Loreday and J A Green 3s 6d, Swifts The Bettle of the Books added why Books edited with Introduction and Notes by SirHeary Craik 2s, Ma. waley a Essay on Lord Byron, Paper 3d, Cloth 4d.

Micheth King Lae, Himlet, Morb Ado Aboo Nothing and the Troppess, Plays of chise spears, edited with Introduction and Notes by B Gordon, M. Five volumes now ready-Himlet Conolanns, A Midsumer hights Diest, ab, Con Like B., and the Tempess Lee, For Like B., and the Tempess Lee, Con Like B., and the Tempess Lee, Con Like B., and the Tempess Lee, The Constraint of the Conoland Chemistry by A M. Adlies, BSC, Public A Treatise on Hydrastatics, by George V Minchin K.a. P.R. Second Edn., Bernet Vol I 4 et Al., Vol II 6

Ready shortly

"Simple Economics" for Indian schools and colleges by J It Cornel, has This useful book has past been published by Messra. Longmans, Gree & Co. The first part of the book drails with the theory of Economics and the second past goes on 69 apply the theory to Indian conditions. The second part is especially very instructives it gives in a small compass and in an interesting manner an account of the present economic conditions in India.

Forthcoming Books of the University Tutorial Frest A new volume in the special series of books for the Unmbridge Senior Local Examinations will matric Analysis. A number of examples are fully worked in the test, and in addition, problems are signed for extra practice in the application of the methods. The book is provided with an index, and hoppithms and addition, problems are additionally and the properties of the pro-

Another book on Chemistry which will appear shortly is Qualitaties Analysis. This book together with the companion volume already published with the companion volume already published course of Inorgenic Analysis of the standard of University Intermediate Extension from Qualitative Analysis has been takes with sight alterations from Quantitative by the same authors. The object of the book is to keep the student in touch with the fundamental principles of the subject and at the fundamental principles of the subject and at the mast rescribed difficulties of manipulation.

Preliminary dribments, which is now in the press, provides a course of Arithmetic snitchle for popula of ten to fourteen years of age, based on testinois which have been tested for many years with excellent results. It should prove especially useful in classes preparing for the Preliminary Cambridge Local Examination, and includes sufficient work for the pass standard of the Junior Paper.

A Tocher's Manuci of Sequish Gramwar and Analysis, by Hram Boy Wilson, A. M., Litt. D. Head Department of English, State Normal College, Ohio University, Atlena, Ohio. This book will doubtless revolutionize the teaching of English Crammar. The student is stught how to use English through a study of good English by the best English and American authors. The sentences and the book virtually becomes a book of value optications as well as a manual of English

The following are some of the recent publications on Geography:-

Hutsroal and Romenie Geographia. Book I., World Steidan, by Mornes Progret and Robert I., Funch, illustrated, (Deni) 2s. 64, Physicapid per Huja Steida, Physicapid per Huja Steida, Physicapid Geography, V. Cleedenlin, and W. T., Morrer, illustrated, Illurraph, G. Gill, als Retrofaction to Physical Geography, Vy Golden, C. C. Charles, C. Charles, C. Charles, C. C. Charles, C. C. Charles, C. Charles, C. Charle

A. R. Blinker, Diagrams, (Cambridge University Press) & note: New South Wales, by A. W. Jose T. G. Tsylor and W. G. Woolnough, edited by T. W. Jose T. G. Tsylor and W. G. Woolnough, edited by T. W. Elgeworth David, illustrated, (Whitcombe and Tomba). 44. 64.; Physical Geography for South Granbridge University Press T. Ott. Internated, Granbridge University Press, T. Ott. Control of the Control

Asia, by David Prew, (Blackie) 64; General Surrey of the Wold, by David Prew, (Blackie) 64; Allas of the World, by J. Bartholonew, (The Peoples Books), Jack, 64 oak; Rivina Geograph, Europe, (Ilodougall) 64; A Practical and Experimental Geography, by P. Morrow and E. Lambert (Michighich, 1974), and the Charles of College Ordon of Station Chicago (Laborated Davidson of College Chicago, 1974), pp. 1762 Physical and Political Chicago, 1974, pp. 1762 Physical and Political Chicago, 1974, pp. 1762 Physical and Political Chicago, 1974, pp. 1764 Physical Chicago (Laborated Chicago), pp. 17

Manual Training for Secondary Schools in India, by A. H. Mackenzie, (the Indian Press, Allahabad). The author is the principal of the largest and the beas equipped institution of the kind in India and the book represents practical inquiries and experiments carried on there. The book is very fully illustrated and severely practical.

Introduction to Physical Geography, by M. I. Nobelin, J. M. Deutl, Sz. &d. This is a really scientific and advanced book written in a somewhat difficult style. It is probably beyond what Indian teachers would read at present.

A Hand-book of English Literature, by W.T. Webb, a and J.A. Aldin, M.A. with an introduction, by C. H. Tewner, M.A. C.E. It is coursely novel in the treatment and style. Utility conducting measures of the treatment and style. Utility conducting the treatment of the treatment of

History of Aurangeth Vols I and II, by Prof. Jadoreth Sarker, Ma., of Paine College.

Associate of Aurangais and Mutoreral Sings, by the same author. These three books are the result of the devoted isbours of a life-time given to the study of the reign of Aurangaib Mr Jadunath Sarkar has collected from a variety of sources an enormous mass of materials, which he has need with judicious care and with the painstaking particularity of scholarship

English Readings for Schools General Editor Wilbur Lucius Cross — Selections from Tennyson s "Idylis of the King by John Erskine (Henry Hols and Co., New York), the following are included The Coming of Arthur Lacelot and Eisine "The Holy Grail and "The Passing of Arthur

Gold Nuggets of Literature by Alfred O Tower (Boston Educational Publishing Co) Books, I, II, III This is a graded Anthology of Poems for memorizing

Illustrative Examples of English Composition, by James W Linn (New York Charles Scribus and Sons, 1913).

A companion to the author's Essential of Eschial Companion and published in the same style. Most of the selections are presented for the first time in a book of this kind. The emphase is upon compara trely recent writers and the book as whole has the same unconventional and practical air slready noted in the case of its precedenessor.

The following are some of the recent books on

History Essential in Early European History by Howe (Longmant) 7: 66 net., The Genement of European Plant of European Pl

The common burden of the following books is that character-building is the supreme end of education:—

Okanzier in the Making by Abel J Jones (Mirrsy), the set Rich School Ridne, by J Howard Mores (Brill 2: 6d, net., The Right and Duties of Orlines by Henry Rimin Malden, E glith edition,' revised, (Lichbesel 1: 6d Lessons in Ottomaking, Reprice, by F. 1 Grail at Congrains), at The Review by F. 1 Grail at Congrains, by The Mainter and the Roy by Allon Hobes, (Charbridge University Press), bs. net, Sundays at the Repail

Military College, by M G. Archibald (Macmillan)

A Hustory of the Bratish Nation, by A W Junes Jack 3s 6d net. It is eminently readable and its importainity, especially in the critical limits of the Tudors and Stuarts will commend it to all but bigots. The character of Oliver Cromwell is sympathetically yet critically drawn.

SCHOOL AND COLLEGE SPORTING NEWS.

SPORES AT THE MADURA COLLEGE
The eleventh College Day was celebrated with great selar by the former pupils of the Madura College on the 18th metant at 730 at Sports were held sud the following were the results in the

various events —

Seniors

220 Yards Dasit.—B Nardyan

Hurdle Bace—(1) Dadamiah (2) Suryanarayan

PLYTING WEIGHT —C S Saukaran CTCLE RACE —C S Rams Rau. Juneofs.

POTATO GATHERING —A Venhatasubban There legged Race —(1) M V Sundaram (2) L Jacadessan

100 Yards' Dash —M Sceenivasam Mathematical Tripos —R Gopals Krishdan,

SIAA Football Tournament Engineering of Medical

The final of this tournament was played between the above teams on the SIAA ground There was a fairly large gathering of spectatora assembled to witness this match and the play, though it was not as fast as one would have wished was none the less quite interesting to watch The Engineers #00 the match by 2 goals to mil, and there is no games? ing the fact that on the day s form the better war won. The Engineers and their victory not so much to their forwards who scored the two goals in the first ball in which with the wind greatly back. ing them up they had everything their own way as to their defence which held out splendidly sgates the wind in the second half when the Medical forwards time after time made determined efforts to score In the first half the Medical defence was hopelessiy uncertain and it was this more than any thing else, that accounted for their defeat.

Studente' Badminton Club Tournament-

The Triplicane Muslim Association played the Egmore Shunmuga Viles Glab and the former won by 58 to 18 in the two innings. The Madres Students' Clab then faced the Madres Social Clab,

the latter winning the match by 58 to 28 in isonings On the second day the Napier Park Badminton Club "A "seam and their opponents the Massingstam Praced" Union played, the latter Advanced "Line of the Park Badminton Club "B "team and the Tapiers Shinning Star Club played a splendid game and the latter won the game by 28 to 35. The next morning the winners "A "the Traplicane The next morning the winners" A "the Traplicane The next morning the winners "A "the Traplicane Shinning Star Club played as plendid game and the lotter won the same by \$8 to 35. The Star Club Park Badminton William Park Badminton Club Park Badminton William Park Badminton Club Park Badminton William Park Badminton Club Park Badminton Park Badminton Club Park Badminton Park Badminton Club Park Badminton Park B

The Tropicsus Minster Association and the Massingstam Frended' Union played again The Muslim Association proved too atrong for Massilpatam and won by 58 to 2. The prize consequence of a Silver Cup and Medals were presented to the winners by Mr. F. V. Dursawamy Modalar High terms of the Minster Massilpatam and Massilpatam and Massilpatam has won the Cup the second time. Media not being ready will be presented later on on the Cup the second time.

HOCKET AT ALMOSE COLLEGE
The All gark College played the Bombay Costoms in the Age Khan Tournament. The game was a fast one, neutier side scoring in the first half. In the second half Aligarh gave the Customs an easy goal, which they followed up by a second, besting Ahgarh by two goals to love.

STORTS AT NAGRUE SCHOOL.

22nd March was an important day in the history
of the Neill City School, Nagnur, There was a

programme of sports and games to which not only the students of the echool took part but the teachers also. The teachers of the school of their name and position on this occasion taxed themselves exclusively for the distribution of prizes and it may be and to their orcits that they acceded excellently in the purpose that they cherubed at heart. The programme consisted of sports and races in the programme consisted of sports and races in the teaching the sport of the sport of the prize and sport of the prize and address to the students at inpth.

STERRYTS SPORTS AT LEGIMAL

On the Dhulwad day during the Holl Indural attending sports were organized by Mr Kakinniof the Servants of Lodia Scienty A committee was formed with Mr Armstrong D S T as the Chairman. Sindents from all attending—numbering servant pasted. Wreating running high jump, long jump, bared-legged races, seck races, posto picking tog-offwar, for formed part of the programme All Life officials and non-officials were presents and a big crowl sufficient of the Prizes of Ea O were

LONDON UNIVERSITY ATRLETIC UNION

The date of the Lundon University Athleto Union Sports, originally fixed for May 21st, has been changed to Thursday, May 22nd Not only does the Union arrange these sports, but it also controls a number of clubs among them the Golfan Society, Crassing Clab. Rife Association, and Ches Club, membership of which is open to graduates and under graduates of the University

THE OXFORD GEOGRAPHIES:

Vol. III

THE SENIOR GEOGRAPHY

BY

A. J. HERBERTSON, M.A. (Oxon), Ps.D. (Faristica I B)
Reader in Geography in the University of Oxford

AND

F. D. HERBERTSON, B.A. (LOND.)

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The Educational Review

In our last issue we published the Resolution of the Government of Imperial India on education which we criticized as dealing

with generalities as a merely scademio discussion would do Ample amends have been made in the Government of India's Notification No. 51, dated Delhi, the 29th March 1913 This Notification teams with interesting statistics, which prove that since His Imperial Majesty announced at Delhi the "Imperial Durbar grant of 50 lakhs recurring," the Government of India has mightily increased its solicitude for the spread of education, the 'Educational Summary -March 1913" gives the statistics of expen diture as follows -" The total expenditure (in round number) was Rs, 785 lakhs, of which 405 lakhs were met from public funds and 270 lakha from private funds" We also learn that since "the new department got to work in January 1911" " Imperial grants for education have aggregated, non recurring grants to 479 lakes and recurring grants to 115 lakes" These figures by themselves are satisfactory but a careful study of the Government of India Notification reveals the fact that no definite policy, no previously thought of scheme of work underlies the distribution The Government of India says that it called upon Local Governments to give a rough estimate of their requirements and partly guided by these estimates and partly by the population and other statistical con siderations, it had made, off and on, doles to the various Local Governments | This is clearly a rather haphazard method of developing education Instead of have your plan and find the money for it, it is rather, take so much and spend it as soon as possible The non recourring grants have especially been inconvenient guests in the office of the D P I The only way of getting rid of them was to divide them not small sums, guided again by financial considerations and dole them out to schools to spend as they like Schools, like Govern ments', have no definite plan of expansion, not being prepared for such windfalls, so they have spent the mones given in all sorts of hanbarated ways

There is much talk nowadays about technical education, but neither the Government Technical Education nor its critics seem to have attempted seriously how much real work in developing it is urgently necessary In the ensuing year a grant of 15 lakhs is made for this purpose A more ridiculously small grant cannot be conceived. This itself is enough proof that there has not been a serious attempt to grapple with the problem of technical education Madras will get Re 9,000 out of this lakh and a half What scheme of technical education is going to be financed with this handsome figure it will be interesting to learn So much with reference to recurring grants There is besides a non recorning grant of 25 lakks for gurls schools, technical schools and special schools. Madras gets the largest share of this amount, 6 lakhs We again contend that 6 lakhs is an absurdly small sum to be used as capital expenditure for girls' schools, technical schools and special schools in a Presidency so large as Madras If this sum were again to be sub divided according to statistical and other considerations, it would be frittered away We recommend that the whole amount be devoted to one institution—say a school of mines. The old fiction that Indian pupils do not take kindly to hand work and the Indian workmen do not take kindly to improved methods and apparatus has been thoroughly exploded. A school of mines to train young men to exploit for minerals, test them and work at factories for making them fit for commercial purposes is a great need, now that the country is being vigorously exploited by mining syndicates. Numerous similar technical institutions can be started year after year, if only people were earnest about the apread of technical education.

At the last meeting of the Madras Legisla
tive Council, there was
The Grantin Aid an academic discussion

about the necessity of the revision of the Grant-in Aid Code by the Gov ernment with the help of a committee of nonofficials. The D P I deprecated the pro posal because a few years ago a conference containing a majority of non officials did sit and discuss the question. The real vital defects that render the present Grant in-Aid Code harmful to education were not mentioned in the debate. In our view the greatest defect in the Grant in-Aid Code as at present worked is the hapbazard way in which grants are given. No school can be sure how much grants it will get or continue to get unaltered for any length of time The grants of a school can be cut away at any time What 18 still worse the more efficiently a school 18 worked, the greater chance there is of its grants suddenly disappearing. If a school increases in popularity, say in a particular year and gets higher fees than usual, unless the management spends the additional reverue immediately for some useful or useless purpose, it will lose its grants for all time. In fact increase of efficiency leading to increased popularity is immediately visited with a mechanical reduction of grants. This is not a question of efficials tersus non-officials but of red tape tersus common sense. There are many other similar questions regarding the distribution of grants which the Manager of schools can give useful advice about. In fact the general principles of the distribution of grants require to be discussed from various points of view and decoded before the Grantin Aul Code can be revised usefully

Early in July next will be witnessed the unseemly sight of pupils From High School to College with their S S L Certificates under their arms flitting from College to College soliciting admission The S S L C scheme was invented for reducing the dominance of external examinations on school work But Principals of Colleges have rendered the scheme nugatory by selecting pupils for Matriculation solely guided by examination marks. The result has been that schoolmasters have become lax in their marking and school boys do not care at all about earning marks at school The Government of India recently congratulated Madras on its system of School Leaving Certificate but it bids fair to degenerate into something worse than Metriculation Such congratulation is nudeserved We say something worse than Matriculation " for Matriculation marks are moderated first by the Board of Examinera and secondly by a moderating Board, whereas in the case of the SSLC the mark of a single examiner, unchecked, unmoderated, has become the ruling factor in directing the destinies of our young men Will the S.S L C.

Board, or the DPI or the University Syndurate enquire into this and remedy this evil? In this connection the following passage from Lord Haldane's speech to secondary and technical teachers will be of much interest -"One reason why the Universities have auffered to horance we have never understood fully the supplicance in the educational system of the secondary school In Germany it has been different. The whole educational fabric there rests upon the basis of the secondary school The boy goes into the secondary school young, and remains there, if he goes through the full course, for about nine years, and at the end of that time he es so qualified that he goes to the University [With us it is regarded as a fat year, if one fourth of those that study in a VI form are considered fit to enter the University ! There is no Matriculation examination, but the student has to produce his entrance certificate showing that he has gone through the mill and has been in the atmosphere of a secondary school We have outgrown the period of the old fashioned examination. What we want is a record, and everybody who goes to the University should have that record" Here in Madras we have the shell of the German system. We have the record but don't read anything of it excent the entry examination marks! The best system loses its vitality if worked badly

In a recent issue we gave an account of The revoit against the plant of the organization of second activities and the organization of second activities are introducing a similar scheme of two courses (1) a preliminary two year course called intermediate, (2) a complote leaving certificate course of foor years Tell recently Australian Universities were

holding Matriculation examinations of their own, but now it is chapped. Written examination forms a part and it is hoped a miner part of the scheme. Así a sop to the University the Board of Examiners will consist of four University Professors and four officers of the Department There is no monition of school teachers as members of the Board and that is its grave defect. The Scotch system is much better.

Mr Daniel Jones, who lectured on Phonelics and on Simplified Spell
ing, writing in the Pieces
(of Simplified Spelling),
after referring to his work in Madras, saya

I gate too uthers wan at Labore and the uther befor the Bombay Teecherz' Asocsisishon (hold at Sur Mangalda z hone Girgaum, Bombay on Janyuari 23) The sudiens at Labore numberd about three i undred neerli aul being Inquanz At Bombsy the audiens was smaul, select-about siesti I shood thine, including men whist peepl. Mr Nelson Fraser Principal ov the Training Cole; wos in the chair (At Labore thair was no chairman) The Secretari at Bombay toeld me this was a much larier addiens than vorteyali asemble at the Teachers, Auces ausbon meatings say in that the Indiana ar aul ears even on S.S. but mosst ov the English peopl (with a fyn bril ant cosepshonz) stil recwier convinuing Madras in (ar ahed ov our other senter booth az regardz fonetica and az regards SS I thine houever, I hav byen sibl to pay the was for fonetice and S.S 15 the Panish and Bombay"

There is no question that in the matter of educational reform Madras is as far shead of the vest of Ludus as it is belond head in social reform and industrial development

The Senate bas, by a large majority, thrown out the proposal to make the Vernacalars the study of ancest Indian hiterature compulsory. The real question at issue has been much darkened.

by counsel by the expedient of describing the proposal as "the compalsory study of the vernaculars." Those who advocate the measure want to destroy the compulsory study of the vernaculars that exists now in schools and colleges as a result of the recent reforms and to substitute for it a compulsory study of two or three ancient Indian literature, bansknt or vernacular. The Senate has been wide awake in dealing with this question. It is noteworthy among the 15 or 16 Fellows who voted for the proposal, there was not one pukka Telugu or one Canarese or one Malayslee Fellow and there was only one non-Brahman. This proves that the question affects different languages and different castes in different ways and cannot be solved off-hand in deference to the sentiments of one party. It is also to be noted that all European Fellows voted against the proposal for they understand how all the recent growth of scientific work in colleges will be killed out by this proposal and education in the Presidency will receive such a set-back that Madras will lose its premier place in the educational world of India suggestions have been made to the effect that the European vote is due to racial hatred of the Indian languages and Missionary hatred of Indian national literature. As a matter of fact even if all the Indian Fellows had voted, the proposal would have been defeated It must also be remembered that of the people who voted for it, there was not a sugle educationist except Professor K. B Ramanathan. Any one that has had anything to do with organizing the work of the Intermediate classes, pay, any one who has been meide a college any time during the last three years and seen the equipment and the work can realize how mischievons the proposal

is likely to prove. Yet this question has been taken up by political organizations and is being fast terned into a political question Numerous public meetings have been held, in which educationists are conspicuous either by their absence or by their opposition to the proposal. We deprecate to introduce into the serees atmosphere of the Senate the methods of the hustings.

The following critique on the BA Teluga Translation Paper by an The Old B A emment Telugu graduate of Telugu Translation a quarter of a century's ex-Paper perience as a teacher, is an eloquent commentary on the results of teaching Indian literature in our colleges for half a century -" I have shown the passage to a Telugu gentleman of this place who has read through the Andhra Bharatamu and Bhagavatamu any number of times and is also a poet He curved his has over the first sentence After wrangling with it for some minutes, he said he could make out little It follows English idiom and contains an adjective in the comparative degree, whereas the Telugu idiom requires the plain adjective In another sentence where one would write ' many men,' the author of the passage writes ' men possessing extensive numbers' It is impossible to gness from what language this idiom has been borrowed" Our correspondent then proceeds to give more instances of what he "outrageously un-Telogu ways of expressing common ideas" We understand that most of the Teloga Examples are BA.'s and if this is the result of fifty years of University teaching of Teluga literature, surely one should think twice before proposing to revive it. We wish the Senate had resolved that the advocates of the proposal

should not make their speeches in English but

each in his vernacular, then there would

have been a sudden shrinkage of eloquence. The educational districts of France are

The French Educational Department

called arrandessements. All the Government schools in an arrondissement, primary, secondary and superior, form one academie presided over by a

reclaur There are shout if such academies. each corresponding to the seat of one French University. These academies together form the Universite de France, ruled by the Minister of Public Instruction , but as he changes with the changing government, continuity is secured by three permanent Lieutenants of the Minister, in charge respectively of the primary, secondary and superior education. This looks like a remarkably centralized scheme, but it is not half so bad as the Indian system. Here the Director of Public Instruction is the one authority on all parts of educational work-Through the hierarchy of Inspectors, Asst. Inspectors, Sub-Asst, Inspectors and Supervisors he controls primary education. He is supreme ruler of secondary education through the same officers or through his being the Chairman of Secondary Certificate Boards. Besides, his place in the Senate and the Syndicate enables him to be the head de facto of University education. There is so much talk of decentralization but this is centralization with a vengeance. Primary education is for the masses, secondary for the classes, and collegiate for the few. These three have different arms and sometimes conflicting interests , they are not and cannot be three range of one ladder but three pyramids of differing heights ; and unless three different men are in charge of the three, one or two will suffer, while the third may be unduly benefited. Another result of this centralization of authority is that a man

who understands and sympathizes with secondary education is pitchforked into collegists work, another who has been inspecting primary schools for years and knows nothing of secondary schools has anddenly to begin inspecting them and criticising the work of men who have been teaching for years and yet a third who could lacture sweetly on the fascination of differential equations is suddenly turned on to balance the claims of old, civilized Teluga and modern, valgar Telagu.

France is the land of so many great mathematicians that the organization of mathema-Mathematics in the French tical work in French schools Lycees is well worth studying. In

the primary stages, 3 to 4 hours a week are devoted to elementary arithmetical operations including the rule of three, intuitive geometry and one hour to drawing of regular figures. The next stage, called premier cycle is a cycle of 4 years and is the first part of secondary education, followed by a second cycle of three years ending with Baccalaureat. 14 to 22 p. c. of the time of school work is devoted to mathematics. Almost all the teaching work is by means of lectures. The pupils must take notes, answer questions and be tested frequently otherwise, so much so there is no possibility of "learning parrot-fashion." The note-books are required to be "as neat as copper-plate." The kind of work done in the mathematical course of the premier cycle D is indicated in the following brief syllabus -Equations and trinomials of the second degree calculation of the derivatives of simple functions, study of their graphic and graphic representation; study of rectilinear motion by means of the theory of derivatives; velocity and acceleration; uniformly changing motion | elements of solid geometry and descriptive geometry, plane trigonometry including the use of 4 or 5 place logarithm tables, the solutions of triangles and trigonometric equations. We call on our teachers in India to compare this with our C Group Mathematics. The next higher course of Mathematics is as follows.

Arithmetic —Properties of integers, fractions, decimals, square roots, greatest common divisors, theory of errors, atc

Algebra.—Positive and negative numbers, quadratic equations (without the theory of imaginaries), progressions, logarithms, interest and annotices, graphs, derivatives of a sum, product, quotient, square root of a function, of sin z, cos z, tan z, cot z. Application to the study of the variation and the imaxima and mnima, of some simple founctions, etc.

Trigonometry — Circular functions, solution of triangles, applications of trigonometry to various questions relative to land surveying

Geometry — Translation, rotation, symmetry, homology and similitude, solids, areas, volumes, poles and polirs, inversion, stereographic projection, central projections, etc.

Conces - Ellipse, hyperbols, parabola, plane sections of a cone or cylinder of revolution, ata.

Descriptive Geometry --Rabatments, application to distances and angles, projection of a circle, aphere, come, cylinder, places, sections, shadows, application to topographical maps, etc.

Kinematics.—Units of length and time Rectilinear and curvilinear motion Translation and rotation of a solid body Geometric andy of the helix, etc. Dynamics and Statics—Dynamics of a particle, forces applied to a solid body, simple machines in a state of repose and movement,

Cosmography —Celestial sphrre, earth, sun, moon, planets, comets, stars, co-ordinate systems, Keplar's and Newton's Laws, etc. On the top of this is the special mathematics course

"In Algebra and Analysis we find developed, the fundamental ideas concerning irrational numbers, convergency and divergency of series, the elements of the theory of functions of a real variable, power series, their multipli, cation and division, their differentiation and integration term by term Taylor's formula the theory of algebraic equations, including symmetric functions, but omitting the discussion of infinite roots. The latter part of the course treats of differentials of several variaables, elementary ideas concerning definito integrals, integration of such functions as are considered in a first calculus course of the best American colleges, rectification of curves calculation of volumes, plane areas, moments of mertis, centres of gravity, differential equations of the first order, solutions of simpler differential equations of the second order, which occur in connection with problems of mechanics and physics. Whenever possible in the discussion of these topics the power to work numerical examples is emphasised.

Plane Trigonometry and the discussion of , spherical trigonometry through the law of vosines are treated in class and five place tables are used

"In the course on Analytical Geometry is given a thorough discussion of equations of the second degree, of homography and anharmonic ratios as they exter into the discassion of curves and surfaces of the second degree of points at infinity, asymptotes, foci, trilinear co-ordinates, curvature, conceavity and convexity, curvilopes and evolutes. The professor also discusses thoroughly the various questions connected with the treatment of quadratic surfaces and less completely, the theory of surfaces in general, of space curvature, oscillating places, curvature of surfaces. The elements of the theory of uniturial curves and surfaces and of analignment curves and

surfaces are also taken up. So also, we find broadly arranged programmes mapped out in mechanics and descriptive geometry. When we read the account of this remarkable mathematical training we cannot help feeling that at the Madras University we are being given but the pale ghost of education and not its reality. We also begin to railize why University education has been so barren of results from the point of view of real scholarship.

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THE SOUTH INDIA TEACHERS UNION CONFERENCE

PRESIDENTIAL ADDRESS

OF THE

REV ALLAN F GARDINER, M A

I must at the outset on behalf of the whole Union express our sincere thanks for the cordial welcome extended to this Conference on behalf of this town and district by Dewan Bahadur T Desika chariar It must be a matter of no small gratification to the members assembled to be welcomed by one who takes so great interest in every work of public unlity and who a few days ago, as a representative of the people of Trichioopoly, was delegated to welcome the 20th Madras Provuncial Conference

The past year has been a very notable

one in several ways in the sphere of edu cation The Government of India's Reso lution, reaffirming all that was prized by us in its earlier resolutions, extending its good will and benefits wider still, and holding out bright promise for the future. has inspired us with fresh enthusiasm. gratitude, and hope We welcome especially its declaration on the questions of the provident fund and pensions for teachers, on the extension of secondary and primary education, and above all we welcome the prominence given to the moral function of all education, for the success of any system of education can be measured only by its success in the formation of character in the taught

On these several points I shall have an opportunity of speaking later when we consider the Resolution in Conference and I must defer what I have to say till then

During the past year the Union has expanded and developed and it was recently honoured by being received in deputation by H L the Governor of Madras who welcomed us warmly and made a most gracious and sympathetic reply to our Address The keenness, activity, and success of the Union should be sufficient to induce every member of the teaching profession to join it, and every Teachers Association to become affiliated, and in the ensuing year we look forward to a great accession of strength

The programme of subjects for this Conference is long important and varied, and I do not intend to make any attempt now to consider it in detail or even to review it as a whole

In the limited time now at my dispo sal I propose to deal in some detail with a question which has been vigorously (and, may I say heatedly?) debated dur ing the last few months. I refer to the position occupied by languages other than English in the various courses of study at the University of Madras question has been simmering in the minds of the educated classes since 1904, when the Indian Universities Act came into A very brief summary of the facts leading up to the present situation will not, I think, be out of place as they are facts that are often ignored though nearly every one of them, in its own place, is peculiarly significant

In September 1904 the University was called upon to prepare and submit New Regulations under the Act, and after some delay it submitted its recommenda tion to the Government in March 1906 In the month of December in the same year the Government promulgated the New Regulations which were substantially the same as the recommendations of the Senate with the important exception that composition in a vernacular was introduced into the Intermediate course as a compulsory subject for all In October 1909, the removal of this subject from the curriculum was proposed in the Senate The Senate referred the matter to a committee and its report recommending the abolition of vernacular composition alto gether was upheld in the Senate in March 1909 by 22 votes to 15 In May the Government refused to sanction this meas ure, and a strong reaction set in October 1909 a proposal was made to

substitute a compulsory course of study in a vernacular, classical or foreign language for compulsory composition in a The matter was referred to vernacular. a committee the transactions of which are of considerable importance. It recom mended that the then existing groups in & iv should be reconstructed into a single group thus enabling a student to study a language in the Intermediate course without thereby limiting his choice of a special subject in the B A Degree course to group VI Secondly it re commended the removal of the History of English Literature from the sylla bus of the Intermediate course it recommended that translation from a classical or foreign language should be accepted as an alternative to composition in a vernacular, and lastly that in this part of the Intermediate examination the minimum mark for a pass should be re These recom duced from 50% to 40% mendations were carried en bloc, and there the matter rested for two years March 1912 a proposal was brought for ward to substitute a compulsory course of study in a vernacular, classical, or foreign language for compulsory composition or translation in the Intermediate course and to make composition or translation an integral part of the BA Degree course. After much discussion the Senate decided by 35 votes to 24 to refer the whole matter to a committee and in March 1913 that committee present ed its report upholding the status quo, so far as the principle of compulsion was involved This report was adopted by the Senate after considerable discussion, by a large majority I ask you carefully to bear these facts in mind during my following remarks and in all deliberations on this subject

The terms of reference of the last

named committee were that they should frame and present to the Senate any proposals that might be considered desirable in order to ensure more attention being paid to languages other than English in the various courses. The committee reported that no alterations in the direction of further compulsion were considered desirable in order to ensure more attention being paid to such languages. Perhaps, at this juncture, I may be permitted a word of personal explanationnot that any opinions of mine can be of the slightest public importance but because I believe that it will help to explain what has apparently puzzled many of those deenly interested in the question, namely the action of sympathisers in voting with the majority. I voted with the majority for the adoption of the Report and for some time subsequently I continued to receive numerous letters asking me to explain how I could reconcile my vote with my views-in fact tacitly suggesting that I was engaged in widening the gulf that separates platform and practice-a branch of moral, or rather immoral, engineering which is deservedly denounced, on platforms. Personally I have never for a moment been conscious of any inconsistency whatever in the matter. I followed with care, as far as possible, the arguments and objections of the minority and the arguments and replies of the majority. This was not always an easy task, for though the debate in the Senate was a striking example of reason touched with emotion it could hardly be described as an exhibition of reason in her most exalted mood. Some actually ventured to assert that the report itself was ultra rive because the committee considered no alterations in the direction of further compulsion desirable in order to secure what so many of us wish to see, as if the

terms of reference had postulated the desirability of such alterations to ensure more attention being paid to languages other than English. I remember some years ago scare-mongers at home insisted that a tide of physical deterioration was sweeping over England. A Commission was appointed to consider the question and to recommend prophylactic and remedial measures. It reported after an exhaustive enquiry that there were no signs of physical deterioration in the English people and no one ever ventured to suggest that it had failed in its duty as a Royal Commission.

In this case the committee merely reported that there was no desirability of making any such alterations in the Regulations. The general desirability of more attention being paid to languages other than English is of course another and a

much larger question.

In dealing with this subject I must of necessity repeat many facts and opinions with which you are familiar, but the more I study the question the more firmly am I convinced that there is ample room still for some clear thinking and plain speaking in the matter. In the first place, though it would seem hardly credible, there has been confusion between two entirely distinct issues. I refer to the case of the vernaculars on the one hand and of classical languages on the

other. IAs a man of Irish descent, I can fully appreciate the truth contained in the brilliant paradox that "in the minds of the advocates of Indian languages the vernaculars include the classical languages." As an admirer and advocate of pure Indian culture I can as fully appreciate the metaphorthat "Sanskrit is the Brahmin's vernacular," but at the same time it must be borne in mind that such forms of expressions belong to the realm rather of poetry than of plain prose, and conse pier thy in a practical consideration of the question of the vernacular aid classical luguages all such figures of speech are best avoided as their very force is liable to be unisleading. It must also be remembered that we are not directly concerted with the comparative value of vernaculars and classical languages considered absolutely as languages, but rather with the relative importance of their diverse functions in the general scheme of studies]

I shall at once proceed to deal with the former

When the Government first considered the recommendations of the Senate in 1906. it made the following comment upon them "they totally exclude the verna cular languages of the country as compulsory subjects The neglect of these languages by the ordinary University graduate of the present day is notorious It appears to the Government that, if those who have secured a University edu cation are to do the best for the country with the education they have received, it is imperative that they should preserve a sound knowledge of the vernaculars. With this in view and in order that a student may not be led to put aside the study of his mother tongue a Regulation has been introduced providing as a compulsory subject in the Intermediate exam mation for the B A Degree, composi tion in a vernacular

Some enthusiasis have never forgiven the formulators of the original recommendations for ignoring the vertaculars alto-other as an essectial and compulsory part of their scheme and refuse, with good reason I fear in certain cases, to believe that they tave changed their opinions. But some of those who had sponginous.

proved of the original draft of the Regulations accepted the amended Regulations with satisfaction, if not exactly with enthusiasm, and approved the adoption of the recent report of the committee of the Senate in the belief that those Regu lations met all the reasonable demands of the minority I submit it is unreasonable and unfair to suspect the supporters of that report indiscriminately of attempt ing to slight or injure the cause of vernaculars by their vote Nor did it seem fair to me at the time to taunt some of the leaders of the majority with being attached to institutions in which the vernaculars suffer a neglect that amounts practically to a boycott Every man is entitled to change his views and to have such a change respected Even one of the stalwarts among the minority was an Indian gentleman who had taken a prom ment part in advocating the abolition of the vernaculars as a compulsory sub ject in any form whatever but had wisely, as I think, reconsidered his opinion But among and altered his attitude those in the minority itself there were some whose attitude towards the vernaculars, in my opinion, leaves much to be desired, if it does not actually convict them of cou We who heartily sistent inconsistency welcomed the Regulation introducing compulsory composition in a vernacular into the Intermediate course have reason for complaint at the way in which that admirable Regulation has been muti lated. Two severe blows have been dealt to the cause which we have at heart, one practically diminishing by 20% the number of candidates obliged to take vernacular composition and the other lowering the standard of knowledge 100 quired by 10% thereby diminishing the interest and the work both of teachers and of taught in the subject. In the first

instance translation from a classical or foreign language was admitted as an alternative to vernacular composition and in the second place the minimum pass-mark was reduced from 50%, to 40%. We who believe in the supreme importance of the vernaculars in University education have a very deep grievance against the instigators and perpetrators of these retrograde measures, as we consider them, and I think that this grievance deserves to be widely published. Of this I shall have more to say presently.

But compulsory composition in the vernaculars for most students is of course by no means the only provision made for the study of the vernaculars in the Intermediate course. The amalgamation of the old groups iii and iv has given students such an opportunity of making a specialized study of their vernaculars as was hardly possible under the old Regulations and they are taking an increasing advantage of this opportunity. In the two years 1911-1912 and 1912-1913. counting the students of each University year separately, Malayalam was studied as an optional subject by 515 students, Tamil by 304, Telugu by 261, Kanarese by 85, Urdu by 43 and Uriya by 17numbers which will appear the more satisfactory when we recollect that in 1911-1912 the Senior Intermediate class was unable to benefit by the amended constitution of groups iii and iv and as a consequence Malayalam was studied by only 30 students, Telugu by 15, Kanarese by 8, Tamil by 5, Urdu by 3, and Uriva not at all. In the Senior Iutermediate class that year, in other words, only 61 students specialized in the vernaculars, whereas the average number in the three succeeding annual classes, under the present regulations, has been 388, that is, about 22% of group iii and

12% of the total, and the number is clearly on the increase. We in Trichinopoly have little to complain of in the effect of the new Regulations upon the study of the vernaculars. About 16% of our students have specialized in a vernacular, and of group iii alone about 28%. In Madras I admit the situation is very far from satisfactory, but that is clearly not the fault of the Regulations. Only 4% of the total number of students in the four colleges and less than 7% of those in group iii specialized in a vernacular, and the seriousness of this comparison will be the more evident when we reflect that in this town we are dealing with 1266 students in the Intermediate classes during the last three University years and to Madras with over 1700. The reason for this difference seems to me to be that in Trichinopoly we have deliberately set ourselves to foster and encourage the study of vernaculars, being firmly convinced of their great educational and national value, and use to the full the opportunities afforded for doing so under the Regulations; in Madras on the other hand, doubtless with an equally single-minded conviction that it is in the best interests of national education, such study is apparently with equal deliberateness discouraged : how else are we to explain the fact that in neither of the two leading colleges in Madras has there been a single student specializing in a vernacular language except in the case of six students who were studying two languages at one of these colleges? In these cases the revised Regulation reconstructing the old groups iii and iv might never have been passed, so completely inoperative and ineffective has it been rendered. It seems to me. I confess, a mistaken policy to agitate for a recasting of the whole scheme of University education simply because in one centre it is difficult for students to secure the full privileges to which they are entitled under the existing regulations. The remedy surely lies in another direction

It is impossible to close a consideration of this part of the subject without a word in defence of the system of voluntary selection of subjects for specialization The only justification of a specialized course of study is that it imparts a more thorough knowledge of a subject than would be possible under any other kind the new Regulations thus ensure a more thorough and lasting know ledge of Mathematics, of Science, of History, of Logic, and of Languages, than the old, and, as I have said, I am san guine enough to believe that the improved quality of the knowledge of vernacular languages will more than compensate for the reduced number of students studying them, and I do not believe that by making a specialized course of study in a vernacular language compulsory in every case would the cause of vernacular languages or of any other branch of study be advanced, on the contrary I believe there would be a serious loss all round

I must defer considering the question of further specialization in the vernaculars in group VI of the B A Degree course till I have discussed the position of classical languages in the course of studies. My contention that composition in a verna cular should again be made compulsory for all, and that a minimum of 50% should again be required for a pass, naturally leads up to the consideration of this subject.

No one I suppose will quarrel with Lowell's dictum that "the chief end of classical studies is to give a young man a love for something apart from and

above the more vulgar associations of life -such vulgar associations, I suppose, as those of earning a living, of maintainparents, grand parents, and their ımmediate relations, of supporting brothers, sisters and cousins, wife and children, and of securing suitable and ex pensive sons in law I yield to no one in my unbounded admiration for a classical education, and as my own has now been in progress for about a quarter of a century, and will continue I hope for another half, perhaps my assurance may be accepted But it must be remembered that this love for something apart from and above the vulgar associations of life is a luxury Such love is exacting and expensive, like every other kind of love with perhaps the one exception which we are told on the best authority is the root of all evil—the love of money. This I believe at any rate the root of the neglect of the classical studies In reply to the question ' Are there in your opinion any special causes deterring students from taking a classical language in group in of the Intermediate course, and from selecting group VI of the BA course?' there is almost heavenly harmony in the united response of the Principals of First and Second grade colleges, and the loud refram of their chant is 'it does not pa), though a very soft accompaniment 18 faintly heard now and then- bad methods of teaching ' Perhaps however the neglect of classical languages is overrated, especially when we bear in mind their limited appeal and the peculiar position they hold in twentieth century educa-Since the new Regulations took effect Sanskrit has been studied by 423 students, Persian by 54, Latin by 42 and Arabic by 5 No other language except Malay alam has attracted so many students as Sanskrit and here again there are prospects of there being an increasing number of candidates in the future. Still we cannot deny that we are disappointed that not more than 5% of the students in the Intermediate department have specialized as yet in a classical language. But this neglect is not due to the existing Regulations: it is due partly to caution, partly to a lack of disinterested enthusiasm for classics, and partly to inability to rise either economically or psychologically above the vulgar associations of life.

Now, in the opinion of most competent educationists, to study a vernacular language up to the standard of a University degree requires the concomitant study of a cognate classical language. A classical language can stand by itself, but not a vernacular. That should be a most important function of such classical languages as Persian, Arabic, and Sanskrit in this land, but so far Malavalam has been studied in this way only by 7. Telugu by 6. Kanarese by 3. Urdu by 2. and Tamil by 1-19 in all-in group VI of the B. A. Degree course.

This is most disappointing and most disquieting. In the colleges in this town every provision is made to impart instruction in seven languages other than English in the University courses, and this I need hardly remind you involves considerable sacrifice and outlay. In the S. P. G. College we have only one student taking Sanskrit and Tamil in group VI of the B.A Degree course-a class in himself-and it is little satisfaction to us to reflect that be only student in South India who has yet specialized in Tamil for his B. A. Degree under the new Regulations. The, provision of every facility to study languages is a costly experiment : it is not however a miscalculated speculation on

our part but a calculated sacrifice. 'Itdoes not pay.' What is needed however to stimulate the study of the classics is not compulsion in any form on the part of the University, but sacrifice on the part of the parents and students-sacrifice in the interests of a love apart from and above the vulgar associations of life.

I need only refer you to the columns of the daily Press and to the Home Office of England for proof of how ineffectual is the policy of the forcible feeding of adults. But the opinions of those who advocate such a course in the matter of languages are entitled to consideration. Nothing short of a complete recasting of the whole scheme of University studies will satisfy them. The enormous labour involved in such a proceeding is of course no valid objection to such a proposal. We who deprecate it on the grounds that it is too early yet to contemplate such a drastic measure do so because we believe that the existing Regulations, with some modification in details, provide all the necessary facilities if students choose to avail themselves of them, and because we are sanguine enough to believe that they will ultimately do so in a sufficiently large number. No one I think can deny that the present courses in themselves-apart from the matter in dispute-are quite satisfactory with the exception of a few details in some of them. No lower standard of English could be accepted without deep reluctance and regret on all sides for either the Intermediate or the B.A. Degree course and it would be hardly nossible to lighten the optional courses; in fact without some very intelligent anticipation of what the examiners will require, or rather of what they will not require, one at least of them is hardly practicable as it is. If two years are just sufficient for two subjects and if a third

is to be added the courses must be extend ed for another year Are parents and students prepared to welcome the neces Bary sacrifice of time and money? I submit they are not If a third subject were added without an additional year being granted either the students would have to suffer almost beyond endurance or the purpose of the optional courses would be almost irretrievably frustrated-unless of course the standard of the Intermediate BA. Degree examination were considerably lowered, in which case they would lose much of the educational importance and value now attached to

It will be remembered however that Government in adopting the draft of the new regulations questioned the wisdom of specialization in the earlier stages of a student's education It is true the remark was made in connection with specializa tion in the Intermediate course, but it observed at the same time that that course was " so fitted and adapted to the specialized plan of study as not to admit of easy alteration without reconstituting the whole scheme of studies " The consideration of such an alteration, I have already suggest ed, is inadvisable and uncalled for at this early stage, but I think that the question of introducing a vernacular language as a compulsory subject in the Government Secondary School Leaving Certificate scheme and of lighten ing the optional courses in it is one that is open to consideration the Government observed in sanctioning the amended recommendations of the Senate, " it is a serious question whether a more general plan of study would not be better adapted to the youth of the students, and the circumstances of educa tion in the country at any rate during the first two years of undergraduate study,"

how much better would a less specialized and more general plan be adapted to the youth of students during three years preceding Matriculation, "thus securing for these young men a wider survey of the field of knowledge before settling down to cultivate one restricted portion of it (to quote again the words of the same Government Order) I confess I have a profound distrust of the educative value of specialization in the case of boys between the ages of 12 and 16, and consequently I am of the opinion that Matriculates would not beworse but better equipped to attack and cope with the specialized courses in the Intermediate department if they were to approach them with a more general and less highly specialized preparation Could a vernacular language be excluded from a plan of studies claiming to be general in any sense of the word? And if it were included, can it be doubted that the proportion of students selecting a vernacular language as an op tional subject in the Intermediate course would be considerably raised? Classical languages, for reasons which I have already stated, are vital enough, I think, to be treated uniformly as optional through out, while vernacular composition should once more be made compulsory and a higher standard required

I feel I have trespassed to long upon your time and patience especially as 'The Madras University and Indian Fanguage's is put down on the agenda paper of this Conference as the subject of a paper and discussion My only excuse, which lask you to accept, is that I consider this to be a subject of supreme importance and Ifelt it my duty to give it a very prominent place in our deliberations

CHRISTINA GEORGINA ROSSETTI.

The Second Great Victorian Poetess.

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Introduction.

1. VICTORIAN WOMANHOOD.

F with the name of Queen Elizabeth we couple the life and growth of the English Drams, if with the name of Oneen Appe we connect the introduction of fashion and artificiality into English literature, the immortal name of Oneen Victoria shall be sacred to after ages for the special genius of women. This special genius of women seems to have always found a congenial soil in prose. Unless we accept the theory of Professor Skeat and attribute that beautiful early poem "The Flower and the Leaf" to Margaret Neville. we have not one good poet to name among women before the accession of Ogeen Victoria. excepting perhaps Mrs. Hemans, an imaginative but not an inspiring poet, and Letitia Elizabeth Landon, a five poet who passed away before she could win her laurel. Josuna Baillie and Caroline Oliphant Nairne are not noteworthy as poets, though the former was a good dramatist and song-writer and the latter a fine composer of Scotch songs. Lady Mary Wortley Montague, the distinguished letter-writer of the eighteenth century, Miss Austen, The Brontes, Miss Burney, Miss Edgeworth, Mrs. Oliphant, Mrs. Radcliffe, Mrs. Humphrey Ward, George Eliot and a host of other women have all distinguished themselves as prose writers. A few women like Mrs. Inchbald, Mrs. Siddons, Mrs. Jordan, Miss O'Neill have no doubt made a name in drama as writers or actors. Poetry may be said to have attracted women only in

the memorable reign of the good and great Queen Victoria. Jean Ingelow, Miss Proctor, and Augusta Webster are very good poets. Mrs. Browning and Miss Rossetti may well claim a place in the House of Fame beside Mr. Browning, Dante Rossetti, the late poetlaureate, Matthew Arnold and William Morris. Mr. Swinburne has only shown natural power of appreciation when he has dedicated one of his volumes to Miss Christina Rossetti, who thought "in loftier strains"* than he.

"Woman," writes Tennyson, "is no undevelopt man"
"But diverse rould we make her as the man, Sweet Love were alam is is dearest bond is thus, Not his to his, but like in difference
Yet in the long years liker must they grow; The man be more of woman, sho of man; He gain in sweetness and in morst height, Nor lose the wrestling thews that throw the world; The meatal breadth, nor fail in childward care, Nor lose the detaillike in the larger mind;
Till at last she set herself to man.
Like perfect mean unto nothe words."

Christina Rossetti fundamentally agrees with Tennyson. In An 'Immurata' Sister she says,

"Men work and think, but women feel."

Thus she draws the distinction between man

and woman, in her two poems Exultate Dea and A Help-meet for Him.

"Man's high degree hath will and memory,

" Man's high degree bath will and memory,
Affection and desire,
By lottier wars be monute of prever and praise;

Fire anto fire,

Deep anto deep responsive, height to height,

Deep unto deep responsive, height to height. Until he walk in white,"

and "woman was made for man's delight," being his shadow by day, his moon by night; her strength with weakness is overlaid, and

† "The Princess."

[&]quot;A Century of Boundels."

· World-wide champion of truth and right, Hope in gloom and in danger aid, Tonder and faithful, ruddy and white, Woman was made "

Christina Rossetti does not seem to have been enthusiastic about women's rights as George Eliot or Mrs. Browning, or Augusta Webster, While George Eliot was zealous for the assertion of the rights of women, while Mrs. Browning held

'That every creature female as the male Stands single in responsible act and thought

As also in birth and death. " while Augusta Webster was "a vigorous and eloquent advocate of women's suffrage, "*

Christina Rossetti most modestly said, " Let women sear to teach and hear to learn. Remembering the first woman s first mistake."+

With these sentiments of Christina we may compare those of Milton. " For contemplation he and valour formed.

For softness she and attractive grace He for god only, she for God in him" I

" And her guite Were such as under government well seemed,

Unsermly to bear rule 'S The glory of Victorian womanhood may be said to lie in that the intensely sympathetic vein of the woman thinker has given great relief to the overthought of man in the Victorian Age of English literature. While Elizabeth Barrett Browning asserted the rights of women, emphasised the responsibility of women and stamped her glorious name in her works during the first half of the Victorian Age, Christina Georgina Rossetti has given eternal name to the latter half of that good queen's reign by being the poetess of the Neo-Romantic Movement and giving a new torn

to English poetry. Where Mrs. Browning left, Miss Rossetti took up the literary life of the Victorian Age ; and the very year after the death of the former, the latter's first volume of poetry 'Goblin Market and other Poems" saw the light of the world.

II CHRISTINA ROSSETTI-THE SECOND GREAT REPRESENTATIVE.

When Mr. Patchett Martin stated in an article that of the two (Mrs. Browning and Miss Rossetti) she herself was "the greater literary artist," Christina wrote to him -" Yet all said, I doubt whether the woman is born, or for many a long day, if ever, will be born, who will balance not to say ontweigh Mrs. Browning." *

And yet all said, a consideration of the works of Christina will show beyond doubt that Christina has balanced and perhaps even ontweighed Mrs. Browning It will be seen that the post who

" with stammering lips and insufficient sound " † strove, and strove nobly, " to deliver right" the music of her nature is equalled, if not surpassed by the poet who

" with love to all the beautiful "

strove "to do well," the poet who with childly lispings to her dear mother in numbers at the tender age of twelve and with a simple hymn

> " To the God who reigns on high, To the eternal Majesty,

To the Blessed Trinity "

went abroad and taught all men that "Love reigneth high and reigneth low and

Bell-Christina Rossetti, p 111. t Later Lafe

I Par. Lost. Book IV.

[&]amp; Par Lost Book X

reigneth everywhere,"\$ Bell, p 93

^{† &}quot; Tae Soul's Expression "

Lance to my Grandfather § Love and Hope.

the poet whose two motive-powers were "religion and affection" and the poet of whom Swinburne sang

" From love-lit thought's remarmaring cave The notes that rippled, wave on wave. Were clear as love, as faith were strong : And all souls blessed the soul that gare

Sweet water from the well of song." . The life and work of this poble lady, who is the second great poetess of the Victorian Age, we shall now proceed to consider.

> BIRTH, EDUCATION, EARLY PORMS. (1830-1847).

Christina Georgina Rossetti was born on the 5th December 1830. She was the fourth and last child of Gabriela Rossetti and Frances Mary Lavinia Polidori, Gabriele Rossetti, "the seer of the Italian re-arising "t was an earnest student of Dante, and in the words of Professor Francesco di Rosso, was "the Tyrtmus of the battles of the Italian liberty, unity and independence, the poet sacred to Italy and Europe, labouring under tyranny, under political and religious reaction."I He was a freethinker and a freemason. Frances Mary Lavinia was a deeply religious woman, a cultured lady, a devoted wife and an affectionate mother. Simple by nature, she abhorred gossip and trained her children in her own way. Their first child and daughter Maria Francesca, born in 1827, the most practical of Gabriele's children and avery devotional woman is known to us as the author of the highly-valued manual, "A Shadow of Dante," In the opinion of her gifted sister Christias. "If Maria Francesca had been her younger

instead of her elder sister, she would have become celebrated," and " she was prevented from achieving fame only by "religious scruples and domestic cares." . In Time Flies and The Face of the Deep Christina speaks of her as "one of the most compine Christians" and "a dear saint" who pointed out Patience as the lesson taught in the Book of Revelation. Dante Gabriel Rossetti, born in 1828, Maria's younger brother, is well known to us as a distinguished nost and painter, and as the starter of the Pre-Raphælite Movement in Art and Letters. He was an artist of whom Ruskin said, his "name should be placed first on the list of men ... who have raised and changed the spirit of modern art : raised in absolute attainment. changed in direction of temper."+ He was a poet of whom Swinburne said, "Among English-speaking poets of his age, I know of none who can reasonably be said to have given higher proof of the highest qualities than Mr. Rossetti-if the qualities we rate highest in poetry be imagication, passion, thought, barmony, and variety of singing power."t Ogite unlike his sister Christina in many ways, he seems to have been greatly influenced by "the beauty of Christina's life and her religious system." William Michael Rossetti, the third child of Gabriele Rossetti, born in 1829, is known to us as "his brother's careful and accomplished biographer." I as the equally careful editor of his sister's l'oems. as the secretary of the Pre-Raphalite Brotherhood and as the editor of "The Germ." the short-lived literary organ of the Brother-

A Ballad of Appeal

[†] Family Letters of Bossetti, Vol. I. n. 18.

² Ibid, p. 17.

^{*} Bell, p. 57.

^{† &}quot;The Easter Art Annual," 1902, p. 1. * Family Letters of Dante Rossetti, Vol. 1, p. 432.

[&]amp; Watte-Ducton. The Athenwam, Feb. 15, 1526.

f Eag, Men of Letters, Rossetti, p. 6

As is natural to expect, the two sisters grew like "frosh violets opened at daws," "roses purtured by the earliest breezes," and "lovely turtle doves in the nest of love ."* an I the two brothers grew

' A pair of Brothern brotherly Unlike and yet how much the same

In beart and high toned intellect In face and bearing Lope and aim †

The family in which Christina was born was of a distinctly literary turn of mind It was besides wholly Italian in character Gabriele Rossetti was wholly Italian, while Frances Mary Lavinia was balf Italian in descent. The friends of the family were also Italian wholly or almost so, the only English family with which the Rossettis were well acquainted being that of Mr. Cipriani Potter. the planist

The Rossetti family was transplanted in England in 1824, as a result of the revocation of the constitution of 1820 by Ferdinand I The connection of the Rossettis with England is only of a recent date. However we are told by Lord Clarendon; of a Count of Rozetti who lived in London 'in great port" in the days of Charles I as a public agent from Rome

The Italian instinct for art asserted itself and Christina turned to the art of Painting for a time as did her brother Danta Gabriel throughout life The latter always considered. says William, that, "had she chosen to study and take pains" she "might have done something as an artist " & At any rate her artistic taste is seen in the devices she made for some

of her poems The literary inclination of the family from the beginning made Christina not only take to reading books, though not very widely nor even regularly, unlike her brother Dante, but also to versifying from an early age "scrapulously" rejecting "all assistance in her rhyming efforts, under the impression that in that case they would not be her own" as her mother put it * The deep religious nature of her mother and the corresponding training of the children is distinctly noticeable in the religious note of Christina's poems, and in her over-present belief in the Lord Jesus "The Christian idea is essentially feminine," tays Mr Watts Dunton, "and of this feminine qual ity Christina Rossetti's poetry is full."† The tie of affection that bound closely the Rossetti family accounts for the vero of affection in The writer abovemenher life and work tioned says that " all that is noblest in Christica's poetry, an ever present sense of the beauty and power of goodness, must surely have come from the mother, from whom also came that other charm of Christina's to which Gabriel was peculiarly sensitive, her youthfulness of temperament."

Christina had no sort of systemathic education, but she had all the advantages that the other members of the family had and aide was educated She knew Italian and French Lear well , and she penned Italian verses as of will as she did English ones She knew also little of German and Latin. The Bible formed the text on which she based her message to the world She was a close student of the Apocalypse Dante, the one favourite author of the family was also her much-admired poet-Maturia's "Melmoth the Wanderer" which held Dante Rossetti spell bound, attracted also · Poetical Works p 464

Bell p 7

[†] Portrauts

I H at of the Rebellion, Vol I p 263 Clarendon Press Edition 1826

[§] Postical Works p 464

[†] The Athensum Feb 15 1896

the fancy of Christins. Both brother and sister also drank deep of the Arabian Nights' Entertainments. She had a partiality for Metastasio. She knew Tasso and Petrarch. Of the ancients she knew Homer and Pisto: of the moderns, she loved Shakespeare and liked Scott. She had a fundness for Keats and Shelley. She read also Tennyson and Browning. Mrs. Browning's poems she read and admired, though she was never acquainted with her person, and she even for a time had an idea of writing the life of "that great poetess and lovable woman."* She was wellacquainted with Swinborne. Thus it will be seen that her literary taste was considerably well-formed. But it had little or no influence on her creative capability. From the beginning she was conscious of her poetic nowers : she had not that femining virtue, if it he a virtue, of diffidence, of which Mr. Leslie Stephen speaks in his admirable volume on George Eliot.†

As Mr. Nash says, "the poetic flow was spontaneous," and was as natural as the notes of the nightingale or the perfume of the violet. But this self-consciousness did not breed in her arrogance or self-conceit. Spontaneity did not make her Muse limp or lean. She would not go about hunting for anbiect. The subject must present itself to her. When she had a fit subject, the form would come of its own accord. She would dash off in feverish haste what was uppermost in her head and endmost in her pen. One sonnet, we are told, she wrote off "in nine minutes," another " in five." ! In this she fulfilled the two great conditions of all

p. 490.

J. Knight-Great Writers " Rossetti," p. 13 + Ninetecath Century, Feb. 1895-Sharp, "Atlantic Monthly," June, 1895. " Some Reminiscences of Christias Rossetti."

true poetry, a fitting conception and a ready expression. She believed in inspiration being the sine qua non of creative poetry, and she was an "inspired author." * In his "Reminiscences of Christina Rossetti" Watta-Dunton says "of all contemporary poets, she had seemed to me the most indubitably inspired: I had made a life-long atudy of poetic art. vet Christina's art secret had haffled me her inspiration was not that of the artist at all and not that of such dramatic passion as in the other posts I had been accustomed to, but the inspiration of the religious devotee."

The very first verses that Christina wrote were the simple lines addressed in her twelfth year to her mother, on the anniversary of the latter's birth, 27th April 1842. Her second metrical effort was a short patriotic poem, entitled The Chinaman, Such a poem, is rare among ber works, as such a conception is itself rare in a family settled in a land of liberty and breathing in an atmosphere where

"The war-draws throbb'd no longer and the battle flava were furl'd."

The occasion of this short porm was the Anglo-Chinese Ooinm War. The simple Hypen of her thirteenth year may indeed be said to he the fountain-head of the mellifluous life. long current of Christina's devotional poetry. The four verses called Mother and Child, in which the innocent child thinks of beaven where " the flowers never fade " and where " never sets the sup." and would go there even now, are very fine, and Danie Gabriel truly said "Blake fnight have written " these. The conception of Mary Magdalens

[#] Bell, p. 90.

⁺ English Men of Letters-George Eliot, p. 52. 2 Sonnets to Bouts-rimes 1 and 9. Poetical Works,

coming " in deep repentance" to " the King of Heaven," repenting of her sin and being forgiven because of the love she bore to Him. corresponds to her brother's picture * and sonnet, where Mary goes forward to meet the Bridegroom saving

" He needs me, calls me, loves me , let me go."

This metual bond of love between Earth and Heaven forms the keynote of Christina's whole philosophy This love emboldens The Marine to go forth with her cheek "glowing with a clorious red" and meet Death.

Satrafied with hopeful rest and replate with

It is this bond of love also that enables the man "with a steadfast face" to fight boldly with the hon, for

"God looked down upon me from the heaven above And I did not tremble, happy in His love ' †

the love of Him, who is piously and fearfully represented in Resurrection Eie. Of the love of Heaven, she thus speaks in Lore and Hope and Charsty

- · Love for ever dwells in Heaven .-
- Hope entereth not there ' After this bleak world's stormy weather.

All, all, save Love alone, shall die.

For Faith and Hope shall merga together in Charity, Compare with these the lines in Sing-Song,

' Hope is like a harebell trembling from its birth.

Love is like a rose the joy of all the earth . Faith is like a hily lifted high and white.

Love is like a lovely rose the world a delight The vanity of earthly love is described in Love Ephemeral and Love Attacked Earthly

love is but "the essence of restless woe." still "Both fools and sages Have felt its power.

In distant lands and ages '

- Mary Magdalene at the door of Simon the Pharises
- † I Have Fought a Good Fight

The secret of this possession of love is unknown, and yet one cannot be indifferent to it, for

' Though Love may not be free Always from a taunt of grief. If its sting is very sharp.

Great is its volue '9

Love she says, is all happiness, all beauty, the crown of flaxen heads and boary, the only everlasting duty.

" And Love is chronicled in endless story, And kindles endless glory "

Christina had a keen eye for enjoying the beauties of Nature, though she was city born and city-bred. With fancy clear, she took in all beauty with an easy span. Her Lance to My Grandfather written in her fifteenth year testifies to this. Her description of Nature's beauties in this piece is as exquisite as it is childlike. She is more than a girl when she makes the whole nature sing "the song of greeting," welcoming sweet Summer in. Summer

· With roses for her crown

With ressamine and myrtle, Forming her fragrant kirtle, ‡

and conspiring to bind her as she lies, with a chain of bud and blossom lest she should suddenly fly away. When she finds at not possible to do so, the poet avails herself of an opportunity to enjoy a single summer night and calls her companions to wander forth with her and enjoy the calm night and

. When the a rains of love have chufly power; When the maid looks forth from her latticed bower.

With a gentle vielding smile. Donning her mantle all the while."

- · Lave Defended
- t Keats "The Human Seasons " t Sammer

the beauties of Nature at an hour

- 6 Serenade

In Earth and Hearen she sees how "of beauty earth is full," but soon finds that "In Heaven is Love" which is far above Earth's fleeting joys and beauties. This is the conclusion to which she is inevitably led at an age when she may be expected to like what is of earth in preference to or in ignorance of what is of Heaven lying behind the unsolved and unsolvable mysteries of life. Naturally then does she exclaim in The Time of Waiting,

" Life is fleeting, joy is fleeting, Coldness follows love and greeting. Parting still succeeds to meeting." and conclude

" For Christ's guiding love alway,

For the everlasting day, For meek patience, let us pray,"

She now finds solace in solitude, "Happy solitude," "Most blessed solitude,"* The critics who interpret this saintly yearning of hers as the expression of a diseased brain. would not feel so if they saw that The Last Answer to all queries of the phantom of Life was that "love and hope are fallacies."

The post who proved the ephemeral nature of all earthly love, the post who saw clearly how in all things.

"Old Time flies fast upon his way,

And soon will cease the night and soon will dawn the day; t the poet who saw the fleeting nature of joy and the frailty of love, when Death could snatch away the bride

" With her brids! robes around her," ‡

the poet who, trying to find out whether life was lovely because of its goodness, or gladness, saw only

- . The Dead City.
- + The End of Time.
- 1 The Dead Bride.

"Tis more of sin and sadness: Nay, of weatiness 'tis more : ""

the poet who very realistically described the sorrow involved in The Time of Waiting, a time full of seeming joys and lasting sorrows; the poet who in The Dead City saw an unreal scene of the seeming realities of life, got afraid and "straightway knelt and prayed;" such a poet could not but long for Rest.

- " Be it sleep or be it death," †
- " Weary of life's passing show,

Its pageant and its pain."

With this eye she looks at The Solitary Ross; with this realisation she sings The Song of the Star, Spring Quiet and Wishes.

In The Dying Man to his Betrothed, we hear the dying man saying that love on earth is "sweet poison, sweetest death," "honey between serpent's teeth," and turning to Christ " the gate of Heaven." In The Dead Bride she comes to this conclusion :

" Happy bride if single-hearted Her first love to God was given ; "

Heart's Chill Between and Death's Chill Between exactly represent the poet's mind and the line

" Death is life, and Death alone "

in Night and Death is very striking. Because of this self-isolation, she finds The World's Harmonies in that voice sweeter than the voice of the whole world.

> " That crieth at the golden door And gaineth entrance in."

In her early verses "the richness of her vision was already faintly prefigured."! Her little piece on Charity is more appealing,

- · Present and Future
- t The Dream.
- I Enc. Brit. Vol. 82, p. 298.

though less imaginative, than George Herbert's "Virtue," which she imitated in this poem Cardinal Newman's "Consolations in Bereavement" is not half as philosophical as Christina's Barral Anthem written at fifteen on the occasion of the burial of a young clergyman The merry description of a summer night in Serenade contrasts well with the gloomy undertone of Matthew Arnold's "Summer Night" While Christina's Elegy on the Death of a Cat is neither so imaginative as Grav's lines " on the Death of a Favourste Cat, drowned in a tub of gold fishes," nor so "highly serious" as Matthew Arnold's "on the Death of a Favourite Canary," while her elegy for which she invokes the Muses to come obedient to her has lish

> " Mourn with tuneful breath Each one for a separate death,"

is not worth the name of an "elegy," at any rate the simple conception of the occasion and the solumnity of the last lines are worthy of the poet, who had great love for animals. Though the simple description of The Lotus-Raters cannot stand beside the beautyful lines. of Tennyson, the fine and close description of The Dead City and the garment of mystery that he round the whole concention of the city with the solemn scenes present before the rambling visitor, the banquet that is no more real than Barmecide's feast, and the sights of men, women and children that in a trice turned to stone, can be placed beside the sweet description of "The Deserted Garden" of Mrs Browning or "The Deserted Village" of Oliver Goldsmith

One wonders indeed how Miss Rossetti could, with her calmiess of mind and serenity of temper, conceive such a horrible picture as that in her Will these Hands ne'er be Clean? The lines

"The air shall smell of blood,"

Earth shall be hell and breath vengcance"
may well be transferred to Shakespeare's
"Macbeth." Macbeth might well have said,
"I som not changed." and turned away for

shame and repentance.

We may mention here the fine pieces Tasso and Leonora, Eleanor, Isadora, Zara and Lady lashella which abound in fine descriptive touches The descriptions of Eleanor and Lady [ashel may well be applied to Christics here]. She had

' A forebead high and white ' That spoke a noble mind.'

she had all the qualities which become a woman well, she had "a perfect form, a

perfect face " and

' If she sang or if she spoke

'Twas music soft and grand

As though a distant singing sea Broke on a tuneful strand; As though a blessed Angel Were singing a glad song. Halfray between the Earth and Heaven Joyfully borne slong.

Speaking of Christina's Early Pount, her buggrapher says, "They have distinct originality of conception and of presentation," a certain undefinable alcoftness from the objects described, while, at the same time, they manifest a remarkable clearness in the delimination of these objects, conjointly with sumptionnesses of imaggry," a

N. K. VENEATERAN

(To be continued.)

^{*} Mackenzie Bell " Christina Rossetti," p 193,

SPELLING REFORM.

ITS SPECIAL ASPECTS.

The following is from the Secretary of the Simplified Spelling Society, 44, Gt. Russell Street, London, W. C.:—

PERHAPS the most interesting feature of

the propagandum of the Simplified Spelling Society-of which Professor Gilbert Murray, formerly of Glasgow, and now of Oxford University, is President-is its Imperial aspect. Significant light is thrown on the problem of English spelling reform by the situation in South Africa. There in recent years a simplified spelling of Datch has been universally adopted in the schools. Important information as to the effects of this new departure is given in a namphlet written by Mr. Joseph Hogarth, Johannesburg, which is published by the Simplified Spelling Society under the title of "Simplified Datch v. Complicated English in South Africa," The general trend of the pamphlet may be gathered from a short quotation which summarises the views Mr. Lub, teacher of languages at Transvasl University College in Johannesburg. The passage is in the "Nyn Speling" which is being advocated by the Simplified Spelling Society. I am sure that most of your readers will agree that it can be quite easily read, though I expect that there will be a tolerably general concensus of opinion that it is very ugly. That is a matter that I should be very glad to discuss with them some other der, but is the meantime I wish to confine myself to the Imperial aspect of spelling reform and must not wander from that issue. Mr. Lub says :- "Datch children non larn tu reed with grait eez and rapiditi ; but the fasiliti ov lurning tu reed iz not bi eni meenz the crouping glori or the nyu method. Thai

now acwier enzili and owicly an art which. under the celd stiel, wez aulwaiz long and teedins ov acwizishon paimli, the art ov composzing and rieting a leter. A chield no longer trablz hiz bed with desieding whether a particular word iz to be spelt with won a or with to a'z or with wone or to e'z: for it is wun oy the nyn ruplz that the forst dobl leter shal he the end ov its oen silabl and the second the begining ov a nyn wun. Indeed. the chield duz not eeven hav to thing about leterz at aul: and hiz miend, being entierli releave from the meer mecanics ov speling, iz free tu consentrait its ful pouer upon the iedeaz which he wishez to ecepres. Datch teecherz ar enthypziastic, for their efishensi iz graitli increest. Thai ar enaibld to impart a much graiter amount ov edyncaishon : for the tiem which was bitheria devocted to the drujeri ov speling iz non availabl for teeching the byutiz ov thair langwij to their pyupliz and for ilyumining

their miends with the liet or other nolei." While the Dutch schools in South Africa are becoming more efficient, the English schools are degenerating and that degeneration is specially marked in the teaching of English. The School Inspectors are particularly insistent in their complaints about bad spelling. This is a point of which spelling reformers would not be disposed to lay much stress. They might say the worse nanils spell the better we are pleased, as the obvious and easy remedy is the introduction of a national exstem of spelling by sound. A much more serious matter is the slovenly way in which English is pronounced by the boys and girls in the South African schools. In the opinion of competent educational experts English in South Africa is rapidly degenerating into an anintelligible lingo, and fears are

seriously entertained that within two or three generations English as it is spoken in South Africa will not be understood in England In the interest of clear English speech many of the British colonists are strongly in favour of spelling reform. Alarm is also naturally felt at the progress which Dotch is making at the expense of English It is true that while men in South Africa are, as a rule, less or more bilingual. Euglish is taught as a lesson in all Datch schools though Datch is the medium of tuition, and in the English schools Dutch is taught as a lesson, English being the medium of tuition. For reasons that seem sufficiently obvious, South Africans of Dutch descent, as a rple speak English better than South Africans of British descent speak Dutch The struggle between English and Dutch in South Africa is as to which shall be the predominating tongue in the homeland, as obviously both Boer and Beston will at least find it advantageous to use the best standard English that they can command in their communications with the outside world English is the natural second language of the Boer, and feeling the advantage of simplified spelling in his own language he is strongly in favour of English spelling being reformed on similar lines so that his children may be able to acquire English more early

In Australia and in New Z-alaud there are similar compliants about the weakness of spoiling in the schools and, about the slower articulation of English, and a growing disposition is abown in favour of spelling reform as a step towards clearer English speech A moderate measure of spelling reform has a ferral from the arrival special form the provided proform has faredy secured the approval of some of the educational authorities in Australia, and it is expected that others will follow at no distant date

Public opinion in all parts of Cauada, where there is sufficient lessure to attend to such matters, is strongly in favour of spelling reform One of the most recent indications of this is the formation of an influential branch of the Simplified Spelling Society in Ontario Out West where towns are springing up with startling rapidity on the prairies the people all act on Principal Sir James Donaldson a advice to the British Association and spell as they please Naturally they have no time to trouble with dictionaries or grammars, and they are quite satisfied with any spelling no matter how ugly it looks, if it has the one redeeming feature of being intelligible I do not suggest that the men in their shirt sleeves, who are making the Wild West arable and fertile, are necessarily the best judges of delicate issues in old world culture, but I think it perfectly safe to assume that they would almost to a man support the Oxford and Cambridge dons of the Simplified Spelling Society in their demand that English should be spelt by sound and not by sight

The bearing of English spelling reform on the position of India is by far the greater part of the Imperial aspects of the problem India is not a nation but a great aggregation of natives with bundreds of diverse languages and religious The only point that all the races and religionare presented in the hundreds of millions of our fellow subjects in India have in common is that they, like us, are under the benign sway of His Melesty George V It is obviously desirable that there should be some bond of union among these vast and diverse populations such as might be found in the universal use of Luglish as a second language Everywhere in India where the intelligence of the native races has been roused there is a keen and growing desire to

learn something of Western ways and Western culture, and the natural medium for conveying such knowledge is the English language. Natives of India are learning English in greatly increased numbers, but they find our system of spelling a serious obstacle. The educated natives of India are often most enthusiastic spelling reformers. One of them writing recently in a Madras paper says :--"Perhaps the reason why the average man loves the absurd English spelling is that it costs him many tears to acquire. No one likes to give up a hard-earned object, so the average man sticks to the absurd English spelling driven into him by raps on his knuckles and other parts of his body." This gentleman, who has lectured on English literature with acceptance in high-class schools and colleges in India, confesses that even now when writing English he has to keen the Concise Oxford Dictionary at his elbow, and has occasion to consult it frequently to make sure of the fashionable spelling. He also mentions that his son, who has quite an exceptional knowledge of English literature, is seriously handicapped by a constitutional inability to master the existing system of spelling English. He has in consequence been unable to pass his graduation examination. All this, however, hardly touches the main issue, which is that thousands of natives of India, who are exceedingly anxions to learn English are deterred from making the attempt by the difficulty of mastering our chaotic system of spelling, which acts as an impassable barrier to our otherwise easy language.

Any of your readers, who desire further information regarding the "Nyu Speling" can obtain a supply of spelling reform literature by writing to the Secretary of the Simplified Spelling Society, 44, Great Russell Street, London, W. C.

THE MADRAS EDUCATIONAL

I'T is more than four years since these rules were revised and educationists connected with schools and colleges are strongly of opinion that they should undergo further revision to meet the present needs. The modifications approved by Government from time to time and embodied in these Rules are the suggestions of a Committee composed of all the Inspecting officers and two or three of the Managers of Aided Institutions with the Director of Public Instruction as Chairman: and hence these changes are often one-sided. The Government in appointing such a Committee should take into consideration the most important fact that there are more institutions under private management than under Government or Local Boards. It would be well therefore if Managers of schools under private management could be invited to become members. But as this would be unwieldy, impracticable, and expensive, the Government before revising the Educational Rules should call upon these gentlemen to submit their views and suggestions to the Committee for their consideration; on this Committee institutions under private management should be strongly represented; there should be as many of these as there are Government officials. Either before or after such revision, preferably the latter, the Rules should be circulated among the leading Newspapers for criticism.

The rules for the recognition of schools are very stringent, no difference being made between aided and unsided schools. The general conditions for aid are clearly laid down in the Grant-in-Aid Code and it is reasonable to expect such schools as receive a grant from Government to fulti all the conditions But why should Government enforce the same conditions on schools that do not receive or care to receive any pecuniary belo from Government? The country needs more elementary schools that can afford to be independent of Government , why should such schools be hedged about by so many laws and regulations that press hard on them and retard their expansion? Liementary schools, teaching a vernacular language only or mainly, have no need to be recognised But if in such schools English is taught side by side with a vernacular, they are doomed . Rule 7 says "That students in derecognised institutions will not, unless it is specially so ordered, be admitted to the privileges accorded to students of recognised metitations.

What these privileges are the rules do not enlighten us We ho vever gather from elsewhere that a student of an unrecognised school will not be permitted to appear for the Secondary School Leaving Certificate Public Examination and hence he is debarred from entering Government service. Pupils of Elementary Schools are of too low a standard to appear for this examination even if they are recognised, and where then comes "the privilege accorded to students of recognised matitutions"? It is chiefly because elementary schools are hompered by restrictions laid down by Government that education has not spread among the masses Missionary and other societies wish to open an elementary school in every village and teach boys up to the seventh standard , but they dare not do so, because of the unnecessary inter-

ference of the Inspecting officers and the conditions of recognition they are compelled to fulfil, viz . (1) the teachers should be of proved ability or should hold trained teachers' certificates, and if the school has standards above the fourth, the headmaster should hold a Secondary Trained Teachers' Certificate, (2) there shall be at least one regular teacher for every fifty pupils on the rolls, (3) the building should be suitable, (4) only books approved by Government shall be used or even brought into the school, (5) the schools should maintain five kinds of registers in the prescribed form, which should be countersigned by every Inspecting officer that visits the school, (6) time tables shall be drawn up in consultation with the Inspecting officer, (7) the school shall follow the scheme of studies issued by the Department from time to time

What benefits does a school derive by fulfilling these conditions? Besides how diffi cult it is for a school to be recognised? The power vests in the Inspector who acts on the recommendation of the Sub-Assistant or the Supervisor of Schools The Inspector has the power of refusing or withdrawing recognition on account of the employment in school of any teacher whom he constders unfit to be a teacher although the Manager may have found him fit and employed him The Manager has to lay out a lot of money to fulfil the conditions of recog nition, with limited means at his disposal he is seldom or never able to meet all this expenditure. A child should have full play for his limbs if he is to develop into manhood, but if he is shut up as Jack-in-the-box he will be stanted in growth. Similarly if elementary education is to be surrounded by so many unnecessary restrictions, it will never spread among the masses. When the Government aids a school with a grant worthy of the name —and not with the paltry sum of Rs. 36 per year, and eight annas per year for each popil, then and then alone should the Government insist on the conditions being falfilled, but not for mere purposes of recognition.

If, as we pointed out above, the rules for the recognition of Elementary Schools are very stringent, those for the recognition of Secondary Schools are still more so. Chapter III enumerates these conditions and we have nothing to say against the rules laid down in Rule 22, that a school before it is recognised should be conducted on approved methods. that there should be need for its existence and that it has funds to fall back upon when the income from fees falls short of the expenditure although the standard rate of fees may be levied and finally the managing body should consist of respectable and responsible men. Half these rules are evidently aimed at schools started by men known as Teacher-Managers, who like parasites subsist entirely on the fees paid by the scholars and cannot afford to lay out any portion of the feeincome on furniture, apparatus or buildingschools that sprout up like so many mushrooms after a shower of rain, and draw away the pupils of well-conducted and longestablished schools by the offer of reduced fees. The Department has done well in not countenancing the growth of such ephemeral schools.

While it is but right and proper that hadlyequipped schools under Teacher-Managers should receive no encouragement from the Department, obstacles should not be thrown in the way of the expansion of Secondary oducation. It is not the one difficulty that Secondary Schools have to contend with.

The first and foremost is the rule that requires that "the Headmaster in every Secondary School and at least three other teachers in the case of schools containing all the three Forms IV. V. and VI should ordinarily hold Collegiate Trained Teachers' Certificates. The other teachers should ordin parily hold Trained Teachers' Certificates of not lower grade than Secondary," Although the severity of the rule is somewhat moderated by the use of the word "ordinarily," most managers fied it impracticable to comply with the requirement. They may be willing to employ trained teachers at great cost, but from where are they to procure them when the supply is not equal to the demand? Not very long ago there were two colleges for manufacturing trained graduates; but the Reishmundry College baying been abolished. there is only one at present, and the admission into it is limited to a select few. It is true there is another at Trivandrum; but it need not be taken into consideration as it is solely maintained for training students of Travaucore, Is it possible for one college to send forth enough of teachers and lecturers for the fourteen first and twenty-nine secondgrade colleges and 275 high schools that belong to this Presidency? If on the average at least one trained graduate is required every vest for each of these institutions to fill an vacancies, the college should annually produce as many as 300 trained graduates! Before the Department could strictly enforce the . rule, it should be in a position to supply the colleges and schools with the required number of trained graduates. To do this more training colleges should be opened at important centres and more scholarships should be offered to induce graduates to join them, If this is found too expensive for

Government, managers of educational institutions should be compelled to pay for the support of the teachers they send for training, for this training is for the benefit of their own schools rather than of the Government

As there is scarcity not only of trained graduates, but also of trained undergraduates, training schools should be opened in every district without any excel tion, where Matriculates and Intermediate candidates may be trained as teachers 'The other teachers," says the rule quoted above, "should ordinarily hold trained teachers' certificates of not lower grade than secondary " Besides the VI. V. and IV Forms, there are the III. II and I Forms, and IV, III, II, I, and Infant Classes, divided into three or more sections At least twenty-four trained teachers are required for each school. To provide these schools with trained teachers as required by the rule, there are at present only two training schools. We are aware there are in almost every district training schools for elementary teachers. The best plan would be to raise the standard of these schools and admit under-graduates and train them as teachers. As it would be highly expensive for Government to give these men scholarships while they are under training the best course would be for the Department to masset on the managers of the schools that send these men for training paying for their support. The headmasters and teachers of the elementary schools have very little work to do, they have to train only a handful of men. As the headmasters of these schools are mostly trained graduates they are quite capable of undertaking the training of under-graduates.

If the plan we have suggested is found to be too costly for Government to undertake,

the Department, would do well to revert to the old custom of holding an examination for teachers in the method of teaching, a different one for each grade, to be conducted by a Board of Examiners appointed by the Department as is being done in the case of European Schools Only those who have been teachers at least for two years in a recognised school should be permitted to appear for this examination, and those who succeed in passing the written test should undergo a In almost all practical test in teaching schools there are still to be seen teachers who in days of old passed this test, and are doing well in their profession. They were not trained in "a Normal School," but they have gamed a fair knowledge of their duties by a study of the latest books on education and by learning the latest method of teaching from those above them Why may not the Department revive the old system, that has given the Madras Encational Department well qualified teachers, who have shone in their profession?

In this connection we must protest strongly against certain privileges conceded to the members of the Society of Jesus and other Roman Catholic bodies, as enumerated in Rule 24 of the Educational Rules Why these and no other Missionary bodies should be granted these privileges is beyond our comprehension. There are several Missionaries and lay workers of the Protestant persuasion who underwent training in Theological Col leges in England, America or Germany, now working in connection with schools and colleges in India. All European members of the Society of Jesus and even native members who are graduates or under-graduates, if they are certified by the Saperior-General of the Mission to have completed their novitiate

and juniorate or to have completed the full course of study, may be ranked as if they held collegiate trained teachers' certificates and native members who are under-graduates and who are similarly certified to have completed only their novitiate and juniorate. may be ranked as if they had held Secondary Trained Teachers' Certificates. Why should the Government make such an invidious distinction between the Roman Catholic and Protestant Missionary bodies? There are a good number of Protestant Mission schools with missionaries as managers, who devote more than two hours a day to teaching secular subjects. But as they do not in all cases possess a University degree, they are not recognised as headmasters and hence they are obliged to employ an Icdian graduate in that capacity. This adds greatly to the cost of the staff. As there are several Protestant missionaries, who have undergone training in the Theological Colleges of Canada, America. Australia or England, some of whom also possess University degrees, Government should recognise their certificates as equivalent to college trained certificates. This is what one naturally expects from an impartial Government.

The rules for the admission and withdrawal of pupils, Rules 43-58, require a thorough revision.

Rule 43 requires a verbal alteration. All such letters of application should be all such applications for this rale requires "an application and not a letter."

Rule 47 should be made more accurate in wording. In Rule 5, a distinction is drawn between form and class, the higher classes being designated forms and the lower classes. This difference is thoughtlessly ignored in this rule. As a Secondary school contains both forms and classes, the wording should be (C) the form or clast in which he studied at the time of leaving it, and (D) if he has completed the course in that form or class, whether he is qualified for promotion to a higher form or class. As it stands the rule is capable of misinterpretation, and the head-master of a school has every right to admit pupils into any of the forms without the presented transfer certificates, and demand these sorbed transfer certificates, and demand the control of the Preparatory classes III & IV, Infant, I & II.

This role seems to give full liberty to a headmaster to place a new pupil in the form or class for which he is found fit; and the insertion of Rule 47 in the Fifth edition bears out our contention :- " The headmaster of the school into which a pupil is admitted shall place him in the class for which he is found fit, subject to revision by the Inspector." Whereas in the Foorth edition there was Rule 39 to the effect that "the Headmaster of a school into which a popil is admitted shall not place the pupil in a higher class or form during the term in which he is so admitted than the one he would have been in, if he had remained in the school he has left." The very fact that this rale has been omitted from the Fifth edition shows clearly that the headmaster of a Secondary school has every right to place a pupil seeking admission into his school into the class for which he is found fit irrespective of what may be stated in the transfer certificate whether he is qualified for promotion to a higher class. The Director of Public Instruction in one of his recent proceedings questions the right of a headmaster doing what is generally understood by the rule, and many a pupil who had been admitted into a higher form has had to be "degraded" although the beadmaster might have found him fit for a higher one. As the deletion of Rale 39 from the Fourth edition and the insertion of Rule 47 in the new edition

have created some unpleasantness and misunderstanding between the Department and the heads of Secondary Schools, the sooner Rule 47 is cancelled the better will it be for all parties

Rule 69 (a) requires that every pupil shall wear a clean and respectable frees, and in all cases where good manners require it a suitable covering for the head. What is a suitable covering for the head? What does the Department understand by grod manners What is considered good manners by some may be just the opposite in the estimation of others Many a pupil may now be seen in schools with heads uncovered, with a tuft of hair, very often with a bush of hair. In the opinion of several achoolmasters this is considered good manners, on the score of its being an orthodox Bindu custom But to the foreigner nothing can be more shocking or disgusting Little boys very often put on a headcloth, obviously too heavy for their small heads Grown up Indians discard their national puggrees and don Corone made felt caps and even hats and sola topees, in a few cases But why compel an Indian school boy to wear a covering for the head while at school? The head is as a rule covered to protect it from the heat of the su 1 when one goes out Is there any necessity for a covering when one stays indoors? The continual wearing of a head dress in a hot country like India tends only to heat the brain and gives one a headache One who is learning or doing mental work should keep his bead always cool Besides it is not the national custom of the Hindu to cover his head, when he goes into a temple or wor ships his God he takes off his head cloth as well as his shoes It was when Mahomedan rule prevailed over India that the Hindu began to cover his head, lest he should be insulted by the sacred tuft being pulled by the Mahomedan In a few schools at present

several boys who have their hair cropped in the European fashion are allowed to stay in the class room without any covering for their head. This role therefore had better be expunged and let every individual achoolmaster do what is best under the varying commissions.

Rule 67 Courses of instruction may be prescribed from time to time For All Secondary schools, etc The rule does not say by whom this is to be done, although it is generally presumed that the Department is to do Because of this grave omission each individual Inspector of Schools prescribes his own course of studies, with the result there is no uniformity, each circle follows a different syllabus. A popul transferred from one circle to another labours under great dieadvantage in consequence. The subjects and the portions studied in one school are different from those in another In the Fourth edition of the Educational Rules the courses were laid down, and in the hifth edition published in 1906, the courses were omitted and a foot-note added that ' the courses at present prescribed are those laid down in the Fourth edition of these Rules" Two years later the same rules were " reprinted embodying the modification approved by Government prior to June 1903," and in this, strange to say, neither the course of studies nor the foot note referring to it appears There should be uniform course of studies prescribed for all schools in the Presidency, but the method of teaching the subjects should be left in the

hands of headmasters.

D LAZARUS.

SUPERVISION AND INSPECTION.

Since the introduction of the new system in schools after Lord Curzon's Education Commission, Supervision and Inspection have become the all-absorbing questions in the educational field especially of this presidency. Handmasters have been relieved almost wholly from their teaching work and have been made to spend most of their time in supervising the work of the essistant-masters. The number of inspectors has been increased and the inspectors are asked to pay as many visits as nossible to every school under their jurisdiction, visits, ordinary, surprise and otherwise and thus they are made to keep themselves in close touch with the actual working of every school. All this has been done in the best interest of education nobody can denv.

But when we look at the result of the actual working of this system for the past four or five years during which it has been in vogue, to the disappointment of all concerned, we find that instead of contributing to the sounders of education, as it was originally intended to do, it has done a great and palpable mischief by creating much heart-burning in the minds of assistant masters which has added not a little to the discontent preveiling amongst school-masters on account of the insufficiency of pay, insecurity of office, anxiety for the faters and many other ills from which they are already saffering

But if we would sit calmly and carefully examine the real cause of this evil we should surely come to the conclusion that the system itself is not at all to blame but only the methods adopted in working it out. The system by itself is good and the spirit of it is highly peaise-worthy. But the illiberality with which the system is worked out by those responsible for the success of it and the wrong methods adopted by them owing to excessive zeal to exercise authority in some cases, want of responsibility in others and incompetency in some others are the main causes that contribute to the failure of this system.

Supervision :--

Under the head of supervision we have to consider three points among others: (1) Who should supervise? (2) Whom and what to supervise? and (3) How to supervise?

(1) Who should supervise ? .- The work of supervision is a very responsible task. It is very wrong to suppose that the supervising headmasters have very little work to do and thus can enjoy much leisure in addition to the enormous powers attached to their office. Of course some headmasters by virtue of the long service they have put in in their schools and proprietary right they own in them have made their office a pastime for their retiring age and of necessity such schools suffer from want of efficiency, and co-operation and willing work of the other members of the staff for causes too well-known to be mentioned here. For supervision to be effective and beneficial, the knowledge of the headmaster should be many-sided and up-to-date. He should be a scholar in English, specialist in one science and a little short of a specialist in all other subjects. He should ever be a student acquiring and assimilating all kinds of knowledge and acquainting himself with the new methods of teaching in addition to

A paper read by Mr. K Venkstarama Aişar, Deputy Inspector of Schools, Padukkottai, before the South Indian Teachers Thion Educational Conference held at Trichinopoly. XIX

work in the highest class of the school lest he should lose touch with teaching and thus fail to sympathise with the difficulties of teachers He should be able to give model lessons for all classes in English and the subject in which he is a specialist and in all other subjects for all the lower classes especially of the primary department. He should be able to draw up syllabuses and set question papers for all subjects and classes in addition to his organising capacity. Above all be should be energetic, enthusiastic, a man of much tact, sturdy character, large heart, good discipline and winning manuers. A defect there and a defect here in other respects can be made good easily if he possesses large sympathy and even mindedness. He should never entrust any portion of his supervision work to any of his assistants however clever and able he might be, at least for sentimental objections if not for other ones. Of course to acquire all these is no easy task and the headmaster can never be called a lessured gentleman (2) Whom and what to supervise? -As regards organization and discipline the bead master should supervise the whole school with the co-operation of his assistants. He should attend to the regularity and uniform-

his originality of thought. He should him-

self teach a portion of the most important

(2) Whose and what to supersise?—As regards organization and discipline the bead master should supersise the whole school with the co-peration of his assistants. Ho should attend to the regularity and uniformity of unstruction given in the charge employed competent and qualified men in the staff it is not desirable that the headmaster should supersise the method of teaching of the masters in the higher forms of the school where the men employed are the products of higher education and know the principles of teaching as much as the headmaster himself A slight supersision is enough in the lower forms down to the first

where the headmaster has sumply to guidthe assistants a little as to the methods Bu the place where a thorough supervision and guidance is necessary is the primary depart ment and the first form where the pupils are yet children and require a treatment according to high psychological principles which the masters there are not expected to know much A sure test of a good headmaster's work is the sound condition of the primary depart ment and the lower forms But some altogether neglect the primary department owing to some reason or other and leave the supervision of it into the bands of their assistants thus creating more masters than one to the teachers of that department. It is heard that in some schools headmasters ask the manitors to keep a daily record of the portion done by the teachers in various subjects and submit the same to them once is a week or so Need it be said then these acts would surely lower the assistant-masters in the eyes of boys and thus make their position really awkward? A competent and responsible headmaster would never allow such things to happen

(3) How to superuse is our next question. The first and forement duty of a headmanter is that of giving model lessons in a should at least give two model lessons in every mooth, one in the higher forms (of courses). Egislah or the subject in which he is a specialist) and another in the lower classes and thus place before the masters for their guidance what he considers to be the best method of teaching Thus is per laps nowher donce. The headmaster should select text books for each subject for all classes and draw upsyllaboses for the same with the assistance of class quasters and the several head?

of studies. He should himself be inveriably the chairman of each board conducting and directing its meetings. He should be carefully watching whether the resolutions adonted in the meetings are really workable and seeking remedies for defects noted. Drawing up of syllabuses and selection of text-books should not be the work of a day but should continue for the whole year. In some schools headmasters leave these entirely into the hands of the hoard constituted for each subject with a senior special assistant for that subject as chairman. Thus they do nothing in the matter beyond that of seeing the business done ill or well by these boards. If -the scheme drawn by the boards proves a success in its actual working, then these would step in and claim for themselves every inch of the anccess. But however if any defect is pointed out by the inspecting officers or the scheme itself fails the responsibility of it will be shoved down to the devoted heads of the assistants forming the several boards. Thus that unless the headmasters take very active part, much more than the assistants themselves, in the actual framing of the syllabuses and the selection of text-books they would hopelessly make themselves unfit for supervision work. In some other schools again the headmasters go to the other extreme. In the framing of syllabuses and the selection of text-books they never take into confidence the class masters and the special assistants who are after all the actual persons to carry out the scheme to a successful issue.

The next important function of the headmaster is that of supervising the work of the assistant matters. As has been said already is is highly desirable, nay even necessary, that the headmasters do not interfere much with the actual teaching of the class by the masters in the higher forms either by being present in the class or offering remarks as such. If however they find it necessary to pass any remarks about the teaching of any assistant master, these remarks should come as suggestions in the teachers' association, which every school should have in a general way without particularising the person concerned. No headmaster should enter remerks in his log book, as he calls it, for the sake of remarks. Of course it must be said that with many beadmasters 'remarks about teachers' means only bad remarks and very rarely we hear of good remarks recorded in favour of teachers. So before recording any such bad remarks about any teacher, the headmaster should invariably have a talk over the matter with the teacher concerned and record his reasons along with his remarks if he still finds his opinion unchangeable. At any rate no headmaster should enter any remarks about a teacher behind his back. Such an action will only create had blood and will bave no corrective effect.

It should never be forgotten that children should be made to understand that there is no person greater than their own teacher, i.e., the persona grata of the teacher should never be allowed to suffer. So any remark passed by any headmaster about a teacher's work in the presence of boys or in the tudents' excrise books, as some do, would be highly detrimental to the best interests of organisation, discipline and instruction besides wounding the anxequibilities of the teacher concerned. His remarks should always be constructive and never aweeping or destructive.

Inspection :-

Inspectors often remark, rightly no doubt, that headmasters should have some import-

ant teaching work, some periods in a week. otherwise they would lose touch with teaching and will not be in a fit position to supervise the work of his assistants. It was remarked by one of the maspectors that a certain experienced and successful teacher was unable to adapt himself to the high school standard of teaching because he had all along been a professor in a college lecturner to FA and BA students Can it not be said with equal force that inspectors before they take up their office should have had at least some years' teaching experience to a high school? The hall mark of Western University or some years' lecturing experience in a college cannot be a passport to an inspectorial seat. The inspector should be an all round man with a high teaching capacity and experience. If an incompetent headmaster spoils one school, an incompetent inspector ruins many

Every inspector should give at least two model lessons in a year in every important centre. It is a pity that the inspection code does not make provision to compel inspectors to give model lessons. In the unitive state of Padukkottas, though a small one, from the superintendent of schools down to the deputy inspector; it is compalisory on every inspecting officer to give model lessons. Similarly it should be made compulsory even here. Then only the suggestions of the inspectors would be more practical than theoretical more constructive than destructive, and more constructive than destructive.

It should also be noted here that there should be more of the inspection of boys than of the teachers

No inspector can be too careful in writing remarks about trachers. Teachers have often

been sufferers on account of indiscreet remarks made by inspectors. Remarks of two inspectors about one and the same teacher regarding the teaching of the same lesson are conflicting One calls his lesson dall and uninteresting and another calls his method intelligent and his lesson very interesting Instances of this kind are many. Again one and the same inspector makes conflicting remarks about one and the same teacher In the first inspection he remarks that a certain teacher is not up to-date, his days are done and he must be replaced by a young, up to-date L.T and in the very next inspection the same inspector says about the same teacher that he has vastly emproved Surely he could not have become younger at any rate! Anyhow such uncharitable and random remarks are extremely barmful.

Above all they should follow to the very letter the sprint of the rules absplated in the code for their behaviour towards managers, headmasters, assistant masters, prominent citizens taking interest in education and parents. Failers to observe these release the part of inspectors has had the bareful effect of making the teachers become dis appointed and hate their profession.

THE WORK IN THE CHEMICAL LABORATORY BY THE

INTERMEDIATE STUDENTS.

DRACTICAL work in all sciences require greatest care and caution and power of observation and a sound knowledge of the theory of the experiments to be done in the Laboratory. Practical Chemistry, especially. it need not be reiterated, requires cleanliness. The students who work in the Laboratory should see every time, they begin their work, that all their apparatus are in perfect good order, and that they are very clean. They should be specially examined, lest the impurities adhering to them should give exactly contrary reactions and results to what ought to be obtained by theory. This is best done by cleaning them first with sodium carbonate in the tap water and then washing them in pure distilled water. The articles thus washed are to be dried with a clean towel or by inverting them in the stand for a considerably long time.

The things that are very essential to the student and which he cannot expect the Collegs to supply him, are a neat towel which he will particularly take care to wash once a wook, a clean penknife that can freely enter into the test-tubes and a match-box. It is always better if he is not allowed in the class without these things.

The students are to be prepared to begin straight their work as soon as they unfer the class rather than look into the book and try to understand what they are to do. This will save a lot of time. This can be easily done by notifying some days before, the list of experiments which a set of students are to perform on a particular day. The students are thus enabled to be quite prepared for the plass. Experiments must be recorded as they are performed. Under no circumstances, recording is done after the experiment or in lose sheets of paper or in note-books other than the one intended for the purpose.

Students should provide themselves with two note-books—one a rough one, in which they record the experiments in the class when they are proceeding with the experiment and get it checked by the Lecturer and the other a fair one in which they copy from the rough note-book those experiments which were approved by the Lecturer.

Each student, after completing his work for that day, must produce the rough notabook in which he has taken notes during the experiment to the Lecturer and get his remarks and if he wants to repeat the same experiment, he must do it without looking into the notes which he has taken during the last time. He must be very careful in not committing the same blunder; this can be easily overcome by beginning the experiment afresh for a second time and by not thinking that he has done it already once.

If once an entry is made in the rough notebook, the proper way to correct it, in case, the student thinks that it is wrong, it is by drawing a borisontal line over it, and making the correct entry by its aide and not by writing over the first entry itself. In this way, manipulation by the student, it any, can be detected and the Lecturer will also be in a position to tell him how the wrong result was first obtained.

Whenever my quantitative experiment is performed, utmost care must be taken both by the student and the lecturer. The student must show in the rough note-book how he arrived at a particular result; and all the calculations made with the help of the

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mathematical tables in various steps, must find a place in the note-book. It is always advisable to resort to work with the mathematical tables rather than by actual multiplication and division.

On no account the students will be allowed to work as they like in the Laboratory and do experiments of their own unless the Lecturer gives permission to do so.

It is particularly requested that the Lecturer is ahead in his lectures of the Practical work by at least 3 or 4 days, so that students will flud their practical work as a revision and also they will be able to perform the succeed ing experiments in case the College is not able to supply each of them with the same apparatus required for a particular experiment-In such cases, they may be able to work in batches. For instance, let us suppose there are 30 students in the class and all of them are to prepare and study the properties of hydrogen bromide. Let us also assume that there are only 10 dropping funnels in the Laboratory available for the students. The class may be divided into sets of 10 students each. When one set is preparing hydrobromic acid the other sets may be engaged in proceeding to the next set of experiments -The Reducing action of H Br and H I and Identification of the Halogen compounds and with the preparation and properties of sulphur and its compounds. This can be done only, if they have done the whole of the halogens and something in sulphur.

The work of each individual student must bs checked separately, for which purpose a book with the following form printed in it is to be supplied to each student. The list of experiments in Col, 2 are so arranged that each set requires not more than 2 hours.

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9	remarks and eignature of the Lecturer				
	marks				
•	whether				
-	begun on				
	Description of a day's experiments with corresponding acts in the Book				
-	ģ				
The following is the scheme					
No.	Description of the Experiments in Smith				

No.	to be folded to a to the	ng article in Smith and Hales.
ι	Bursen Burner, Glass working and	
	Construction of a wash bottle	3, 4, 5
2	Use of the Simple Balance and the	_

measuring vessels 3. Qualitative study of the Chemical phenomena

The Law of Definite Proportions ... 10, 11

5. Oxygen, Sources, Catalytic action . . Preparation and Properties

12, 13 Orveen 7 Hydrogen, Interaction of metals and

16, 17 8 Other methods of obtaining Hydro-

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gen and its properties

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	rine 29,30	33.	Preparation of Sulphuric Acid, Pro-
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•••	Hydrogen Chloride 31, 32		Acid as a diabasio acid, Sulphates 79, 80, 81, 82
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EDUCATION IN THE MAGAZINES.

Mass Education in Baroda.

The 'Library movement' in Baroda is taking some interesting turns, all aiming to bring the light of knowledge within the reach of all classes of people high and low young and old, male and female. In the Central Library located in the capital of the State, there is a ladies' section as well as a juvenile section, with hundreds of books likely to appeal to and instruct these particular classes of readers Mr Gould the well known lacturer and author of children's story books. visited Baroda and found 'ample evidences of upto date appreciation of the importance of literature to young cit zenbood. In a recent number of the 'Library Miscellany' issued from the Central Labrary, Mr Gould gives some interesting hints on the organisation and popularisation of chil dren's libraries by such means as story telling. supply of illustrated books and periodicals lantern lectures and publication of books of the type of Mr Stead & Books for the Bairne in the verna culars. The children's library is distinctively an American invention The importance of juvenile departments in connection with public libraries is being slowly but steadily appreciated in Great Britain too, though not to the same extent as in the new world It redounds highly to the credit of Baroda that it should have been the first in India to realise the important part children's libraries play in stimulating the national intellect

Not content with the success it has met with through the agency of books, the library depart ment is thinking of pressing the Cinematograph too into its service. Realising the immense possibilities of the moving picture show as an educational instrument, the department has opened a visual instruction branch in connection with the Central Library Department, with a view to give the benefit of education not only to those who can read, but also, and especially, to those who are innocent of the art of reading It appears that the Maharaia has sauctioned Rs 10,000 for one year, by way of experiment, in connection with this novel branch of the literary activities According to this scheme one superintendent and an operator with the pecessary menial staff are to visit different places in the Ray and give free Cinematograph and Magic Lantern exhibitions. A new Edison Home Kinetoscope has also

been ordered Some high officials of the State, following the example of the Maharaja, have placed their own home Cinematographs at the diposal of the department, Allogether, it would appear that the newly organised Library department is playing a splendid part in popular education in the true sense of the term

Education among Sikhs.

1t the Sikh Fducational Conference lately held at Amba'a Diwan Lilaram Singh of Karachi, who was elected President, said —

I need hardly point out that education does not mean mere literary training, but it is in the true sense of the word an equipment for his system of education can be complete which neg lects the training of the heart and fails to awaken some of the noblest emotions of the soul -Obedience and loyalty, spirit of sacrifice and derotion to the ever living and loving God has made Sikhs a distinct race, faithful and valiant devoted and fearless, but unshaken faith in God and the Gurus? It was this light of faith which our Gura Sabibs kindled in the hearts of men and turned them into heroes. It is this faith which is the essence of the Sikh religion and which is out duty to keep alive for the greatness and glory of The first and foremost am and object our people of our system of education should be the education of the heart, in the faith of our father untrammelled by the accretions which have gathered round it. If we bring up our children as true Sikbs, ready to sacrifice and suffer and continues valorous conflict against all that is ignoble and wrong we shall have done our duty. It was for the propagation of this high ideal that our Great Gurn Govind Singh Sabib and his sons suffered martyrdom lie has left in the hands of the Khalsa the salvation of the whole of India and we have met here now, and I hope every year we shall real ze more clearly and work more stead fastly to keep the fire of true devotion alive, and implant in the heart of every Sikh child, male and female, the fear of God and love of man, a behel in human nature and the power of truth in conquering all difficulties This education cannot be given in schools, and it is this education which we require for our children if we are to carry out the trust which our Gora Sahib placed in the Khalsa-This education can only be given by fathers, mothers, and brothers, living boly and devoted lives as true Sikhe, and kindling the growing minds a blaze of devout aspiration for all that is noble and true.

(FOREIGN) Mr. Austin Dobson writes in Great Thoughts :-

Thackeray's "Esmond."

 In Thackersy's work, the place of "The History of Henry Esmond, Esq., a Colonel in the service of Her Majesty Q. Anne, written by Himself"-lies midway between his four other principal books, "Vanity Fair," "Pendennis," "The Newcomes," and "The Virginians; " and its position serves, in a measure, to explain its origin. In 1848, after much tentative and miscellaneous production, of which the value had been but imperfectly appreciated, the author found his fame with the vellow numbers of "Vanity Fair." Two years later, adopting the same serial form, came " Pendennis." "Vanity Fair" had been the condensation of a life's experience; and excellent as " Pendennis" would have seemed from any inferior hand, its readers could not disguise from themselves that, though showing no falling off in other respects, it drew to some extent upon the old material. No one was readier than Thackeray to listen to a whisper of this kind, or more willing to believe thatas he afterwards told his friend Elwin concerning "The Newcomes"-" he had exhausted all the types of character with which he was familiar." Accordingly he began, for the time, to turn his thoughts in fresh directions; and in the year that followed the publication of "Pendennis," prepared and delivered in England and Scotlanda series of " Lectures upon the English Humourists of the Eighteenth Century." With the success of these came the prompting for a new work of fiction-not to be contemporary, and not to be issued in parts. His studies for the "Humourists" had saturated him with the spirit of a time to which-witness his novelette of "Barry Lyndon"-he had always been attracted; and when Mr. George Smith called on him with a proposal that he should write a new story for £1,000, he was already well in hand with "Esmond"-an effort in which, if it were not possible to invent new pappets, it was at least possible to provide fresh costumes and a change of

background. To most readers it will be a matter of surprise, and it is certainly a noteworthy testimony to the author's powers, that this attempt to revise the language and atmosphere of a vanished era was in great part dictated. It has even been said that like "Pendennis," it was all dictated; but this, it seems, is a mistake, for part of the manuscript was prepared by the author himself. As he warmed to his work, however, he often reverted to the method of oral composition which had always been most congenial to him, and which explains the easy collequialism of his style. Much of the "copy" was taken down by Mr Crowe in a first-floor bedroom of No. 16, Young Street, Kensington, the stillexistent house where "Vanity Fair" had been written: at the Bedford Hotel in Covent Garden: at the round table in the Athenseum library, and elsewhere. "I write better anywhere than at bome"-Thackeray told Elwin-" and 1 write less at home than anywhere," Sometimes author and scribe would betake themselves to the British Museum, to look up points in connection with Mariborough's battles, or to rummage Jacob Tonson's Gazettes for the official accounts of Wynendel and Oudenarde. The Museum, indeed, was another of "Esmond's" birthplaces. By fayour of Sir Antonio Panuzi. Thackeray and his assistant, surrounded by their authorities, were accommodated in one of the secluded calleries.

Professor Dowden.

The world of books has suffered a great loss in the death of Edward Dowden. Even in his undergraduate days. Dowden had made his mark as a critic, for an address which he delivered before the Dublin University Philosophical Society, and won favourable notice from Sainte-Beuve. He was appointed to the Chair of Ecclish Literature in Trinity College at the ege of twenty-four, and eight years later he published 'Shakespere : His mind and Art.' a work which many critics regard as the most valuable contribution made to Shakeeperean commentary since Coloridge. Ris ' Life of Shelley,' published in 1886, was the cause of an ironical essay by Matthew Arnold, but the book is still acknowledged to be the standard biography of Shelley. Dowden himself thought more highly of a small volume on 'Southey' which he contributed to the ' English Men of Letters' Series,

Apart from his works on Shakespere and Shelley. Dowden's contributions to critical literature were wide in range and in sympathy. He wrote notable essays on French, German, and Italian authors and thinkers, and he was almost the first of our critics -anticipating John Addington Symonds-to recognised Walt Whitman. 'The good gray poet' was deeply moved by this admiration from across the Atlantic, and the frequent references in his letters prove the high value which be set on Dowden's appreciation. Few critics showed greater skill than Dowden in presenting the essence of an author's spirits by means of a mossic of quotations embedded in a running interpretative commentary, or in summing up the salient characteristics of an epoch-His essays on ' The Transcendental Movement and

Laterature' and 'The Scientific Movement and Laterature' and his book 'The Franch Revolution and English laterature, are examples of the latter faculty' His chief admiration in English literature after Shakespers was probably for Wordsworth, and in French literature for Montaugue

Dowden's personality was an extremely engag ing one His dignified and rather formal bearing, the deep, musical tones of his soice his humour, and the grave courtesy with which he would defer to the greenest undergraduate were some of the personal traits which won and held the affection of succeeding generations of his students ever made less of a parade o scholarship and none was more ready to place his time and his books at the disposal of any literary inquirer Dowden's health oud been a cause for concern to his friends for some time-a few years ago he said in conversation with a smile that he ' had no blood thirsty chaging to 'ife'-but his end on Taureday was quite unexpected His country and his univer sity will both mourn his loss. Readers of the Nation will also have cause to regret that his occastonal contributious can no more appear in our pages -The Nation.

European Predominance

At the third quinquennial International Con gress of Hutorical Studies in Lindon, Mr Brpce, the President, spoke on the subject of 'European Predominance in National Development'' He said —

There was one other aspect of the present age of the world that had a profound and novel meaning for the historian The world was becoming one in an altogether new sense. More than four centuries ago the discovery of America marked the first step in the process by which the European races had now gained dominion over nearly the whole of the earth. The last great step in that process was the partition of Africa between three Furopean powers a little more than twenty years ago Now, almost every part of the earth's surface, except the territories of China and Jajan, was either owned or controlled by five or six European races Eight Great Powers awayed the political destinies of the globe, and there were only two other countries that could be thought of as lakely to enter after a while into the rank of Great Powers Similarly a few Furopean tongues had overspread all the continents, except Asia, and even there it seemed probable that those few European tongues would before long be learnt and used by the educated classes in such wise as to bring those classes into touch with European ideas. It was likely

that by A.D 2000 more than nine tenths of the human race would be speaking less than twenty languages. Already there were practically only four great religions in the world. Within a century the minor religions might have gone, and possibly only three great faiths would remain, with such accelerated swiftness did change now move. Those things which were already at ong were growing stronger , those aiready weak grew weaker and were ready to vanish away Thus, as the earth had been narrowed through the new forces science had placed at their disposal, and as the larger human groups absorbed or assimilated the smaller, the movements of politics, of economics and of thought in each of its regions became more closely interwoven with those of every other Whatever happened in sof part of the globe had now a significance for every other part Industrial disputes were felt more widely over its surface than those earthquikes in Jara which the semmograph recorded at Washington I be money markets were affected simultane oualy. Each Great Power, were it European, Asiatic or American, was in close contact with all the others, it was allied or friendly, (or possibly not too friendly) with some one or more of the others The great wave that aways round the world made its last ripples felt in the world's remotest corner. In regions till lately unexplored, in the sombre depths of African of Brazilian forests, or on the cases that lay scattered along the dreary deserts of Mongolia, the fortunes of the native tribes were affected by what passed in Luropean capitals Even in the one continent which stood almost wholly outside the web of international relations South America, Finance reached where politics did not reach. Finance, eres more than politics, had now made the world one community, and finance was more closely acter woven with politics than ever before. The his torian, who in the days of Thucydies needed to look no further than to Susa on the east and Corthag on the west had now to extend his vision to take in the whole earth, and would not be able to write the annals of any one country without keeping ha eye fixed on the Sovereign and Parliaments of every other Nor was there a more striking illustration of the influence now exerted by the European race upon all others than was presented in the fact that in every country, except those which were ruled at subject dominions by some people of European stock there now existed some kind of form (even it little more than a form) of representative govern ment World history was tending to become one his tory, the history no longer of many different races of mankind occasionally affecting one another s for tunes, but the history of mankind as a whole, the fortunes of each branch benceforth bound up with those of the others. In these conditions, the his torian of the future would need an amplitude of conception and a power of grouping his figures like that of Tintoretto or Michael Angelo, if he were to handle so rate a canea.

The Evolution of Indian History.

At the meeting of the Oriental Congress of Historical Studies at University College on April 4th, Sir William Lee Warner read a paper on "The Evolution of Indian History," in which he said that the stages or periods through which the Indian peoples had passed in pursuit of a reasonable degree of freedom were marked by the ascendancy of three principles-first the Higdon priestcraft; second, the sword of Islam; and third, universal British law. The first period, 1500 B.C. to 1206 A.D. spanned the transition from a pastoral Indo-Aryan community enjoying personal liberty to a medley of separate despotisms, in which the priestly caste monopolised temporal and spiritual power. The Brahmins, asserting ascendancy over caste and tribes, moulded the social framework, and used religion as an engine of statecraft. A Buddhist struggle for freedom succeeded 250 B.C. to 350 A. D., declined 750 A. D., and finally failed. Although the traditional basis of four castes was modified, the priests, by conferring a divine status on Raipoct kings, regained power India without political unity, defenceless against invesion fell into helpless anothy and disorder, deadening the instinct of freedom. The Mahomedans A. D. 1206-1788, bringing new elements of freedom, broke the sacerdotal ascendagey in the north, and distributed over India principalities opposed to its pretensions. Brahminism, however, won fresh successes at Poons and in the south, again provoking Lingarate and other sections to throw off the fetters of caste. Akbur gave the empire an objectlesson in religious toleration, and showed that the defence of Indian frontiers required control of the Afghan passes and imperial unity. The attempt failed, but rekindled the desire for freedom. The British secured the public peace and defence of India essential for the diffusion of liberty, abolished by legislation, slavery, sati, and caste disabilities, otherwise securing free play for the silent mural forces of Indo-European civilisation. After the Mutiny, an open conflict between the two circlestions, progress towards freedom was resumed; but, under the State's guarantee of religious neutrality, slow headway against the enslaving tendencies of centuries must be expected.

Ben Jonson

Mr. George Freeman Irwin writes in Great

In their endeavours to mark as clearly as nossible every shade of distinction among poets critics have been led to use many images of singular force and propriety. Among these is one. singularly felicitous, which has more than once been employed, to indicate that difference so perceptible yet so difficult of explication between the work of the very greatest attists, and those who fall short of the greatest by the want of some indefinable touch that would have given their work the different air and happier effect, which marks the master hand. The codlike mastery of the former has been expressed by the word Olympian; and the unceasing and mighty efforts of the latter to attain the same beight by the word Titanic. Swinburne in approaching the study of Ben Jonson used these words, and with his own peculiar mastery over language adorned the phrases with his own enlargement of them. He classes all poets as either "Gods of barmony and creation" or "giants of energy and invention." Jonson, wanting as he was in the mastery of the Olympian, stands in the front rank among the Titans.

His masques and dramas are marked by consistent effort of the highest kind, rewarded frequently by the production of work which lies upon the borderland of the Olympian. They possess all those qualities of "energy and invention" which are essential to the highest forms of artistic work, but they are wanting in that harmony which belongs alone to the creations of the highest. It is thus that he stands just below Shakespeare, and although many passages of his may be quoted to show that he excelled him in particular points, yet we must never be led so far astray so to place him above the "myriad-minded" master, for with all Joneon's master power be had neither the range nor the magic touch which speak the divine in Shakespeare.

Joneon's consistency throughout the whole course of his work is so wonderful and so admirable—erten beyond that of Shakespears—that itdesertes a high reward; and the words of Sminbarnes we noticel praise. There is something herous and magnifects in his hirleony dedication of all his gifts and all his powers to the service of the srt, he had shetted as the tunners of all his left, and the saim of all his appraisation."

The characteristic of the Titans is effort, and effort is one of the keynotes of Joneon's work, There are no scholars by intuition, and years of hard study are required before such erudition as Jonson's works exhibit could be attained.

Like Milton he astomshes us with the range of his studies and his capacity for work. He was the possessor of a remarkable library of classical works as Selden testifies, and was deeply read in the European literature of many periods This learning he thought it his duty to use in the composition of his dramas so that we have them studded with gema from the classics, so much so indeed that some of his contemporaries accused him of plagiariem and insinuated that Jonson's chief ment was that he was an excellent translator But we have a remarkable instance of Junson's capacity for arduous labours. When he was contemplating a draws on the subject of alchems, he made a diligent study of all the details of the theories and methods of the science, till he was in a position to introduce with perfect case its technicalities into his play-a feat which to a less able man would have been well nigh impossible for, as a perusal of the play "The Alchemist" will show, the students of alchemy were not sparing in the manufacture of abstruse terms

Jonson's study and his introduction of the results of his study into his drames is a trait of that conscientiousness which marked all his literary undertakings Whatever he undertook he im mediately set about with a conscientious effort to make the best of it, and to leave nothing undone which would make for the success of his work With such a command or all the realms of classical thought, he found it impossible in setting about the composition of a masque or drama however trivial to omit the introduction of some adornment from these treasures. It is thus that we find everything from his hand substantial. His poetry aims at that, and whatever may be wanting of ethereal fragrances and the finer qualities of delicate art, we may be sure of finding a robust substantiality

The same conscientiousness is observable in the construction of his plots, in which point he presents such a marked contrast to Shakespeare Shake speare never constructed a plot for himself , he was quite content to take a well known story and adopt the salient features of it for his own purpose, Joneon's plots on the other hand are his own, and they display a skill and ingenuity only surpassed by a few of the very greatest comedy writers of ancient or modern times. The plot of " The Alchemist" was selected by Coleridge as one of the three best in any literature,

It may be that Joneon's very greatness as a

scholar was the cause of his failure as the founder of a school of dramatic art. More than one critic has pointed out les attitude towards his characters-We can imagine Shakespeare as lovingly dwelling upon his creations. We can imagine him loring Juliet or Miranda, pitying Cordelia, feeling with Hamlet or Lear in their distresses, and taking the bitterness and haired of Timon. There is no alcoluces from his characters. He is one with them, as Dickens was with his, rejoicing in their success and saddened at their failure With Jos son this is all different. His habits as a student had led him to regard his characters as subjects for the exercise of his intellectual faculties, something a little superior to puppets, who were to go through various actions, and whose emoliocal nature was to be taken into consideration in the same intellectual way, as forming a part of the motive power of the play He stood aloof from his creations and contemplated them from alar The result is, as has been pointed out, a want of " vital impulse" to b a characters And they are mere examples of those enigmatical bumours of which be treats in so many of his plays from "Every Man in His Humour" and "Every Man out of His Humour" down to almost his latest play "The Magnetic Lady" or "The Humour Reconciled "

THE UNIVERSITIES.

MADRAS UNIVERSITY.

Nominations for Election

The following members of the Syndicate have vacated their seats -Mr R. Li Jones, M. J. the Rev G. Pittendrigh, Ma, the Rev. L M. Mao phail, MA, BE. An election of three members of the Syndicate will be held forthwith least two members to be elected should be Heads of or Professore in Colleges affiliated to the University of Madras The Syndicate has nomi nated the Rev W Skinner, MA, D.D., the Rev A Moffat, MA, B SC, F E S K, and the Honble Mr. T. V Sesbegier Aiyar, BA, BL, for election

M A Degree Examination, 1913

BRANCH VI (ENGLISH)

The following are the names of successful candidates -Annaji Ban , Periyapatam 8 (Kanarese) 111

class, Gnanaprakasam, D (Tamil) III class Kesava Rau, Vadd (Telogo) II class, Krishna murti, R. (Sauskrit) I class, Madbava Kurafi Koyippillil (Malayalam) II class, Ramachandra Ran, Gajarelli (Telogn) III class, Sitaraman, P. A. (Sanskrit) II class, Subrahmanyan, K. (Tamil) II class, Venkataraman, Valavanor R. (Telogn) II class, Yegnanarayana Aiyar, Stanukrishna K. (Sanskrit) II class.

Engineering Examinations

The following are the names of successful candidates:--

FIRST EXAMINATION IN ENGINEERING.

Balraj, S. Joseph; Durairajan, N.; Goindarajan, N.; Narasimba Aiyar, M. Kolathi; Eamaya, Maddgiri; Srinivasa Ran, Udipi; Sriramolu Naidu, Bandi; Subrahmaniyam S. M.; Sundaram P. S.; Venkatasurvanarana, Tangirala-

B. E. DEGREE (CIVIL BRANCH).

Krishnaswami G. R.; Lukahminarasaiya, Narsipur; Lukahminarayan, Akkanapregada; Madhova Chari R.; Nageswara Aiyar, Arumbakkam; Ratnaswami Samuel W.; Srinivasan T. R.; Thomas Kallarakal C.

R E. DEGREE (MECHANICAL BRANCH).

Venkatakrishnan L., and Vengata Subbachari, Kunigal R.

CALCUTTA UNIVERSITY.

Re-institution of L M.S. Examination. A meeting of the Senate of the Calcutta Uni-

A meeting of the Senate of the Calcutta Oversity was held at the Senate House, Cullege Square, recently. The Hon. Sir Ashatosh Mookerjee, Vice-Chancellor, presided, and there was a large number of Fellows present.

The Vice-Chancellor, in opening the proceedings, said, that with regard to the re-institution of the L. M. S. Examination there were seventeen recommendations before them from the Syndicate. Those recommendations were based generally upon the recommendation made to them by the Faculty of Medicine, although the Faculty itself was on certain points divided in their opinion. Any alterations in the medical regulations of the University was primarily a matter for experts. If the experts were agreed in their opinion, the chances were the laymen would have had to say nothing. But the doctors were divided in their opinion and the result was that the laymen were called upon to decide the matter. They should have, therefore, principally to discuss the exposition given by the experts themselves. There were two questions really which required consideration, namely-(1) Whether the regulations for the several examinations for the Degree of Bachelor of Medicine require amendment; and (2) whether it was necessary to institute an examination or examinations of a lower standard.

Col. Deare, Dean of the Excelly of Medicine, moved that the L. M. S. examination be re-instituted and that the draft regulations now before the Sanate be adopted for the purpose. Major Rogers seconded, and Rai Bahadar Dr. Chauti Lal Bose supported the motion. After a long discussion the motion was put to rote and exried.

ALLAHABAD UNIVERSITY.

Kayastha Pathshala

We learn with pleasure that an application has been made to the University for the affiliation of the Kayastha Punhahai and the the affiliation of the Kayastha Punhahai and the the standard, and at it shoped and the theorems and that the opening of B. A. classes in the Pathshais will soon be an accomplished fact. This is very good news and the President and Trustees of the Pathshai as well as the community described to be congratulated on the prospect,

LONDON UNIVERSITY.

Reorganisation Scheme-

Far-reaching proposals are embodied in the final report, beard recordly, of the Royal Commission on University Education in London. Their recommendations involve a thereugh reorganisation of the University of London, and will necessitate au addition to its income of £99,000 a year, says the "Daily Telegraph." The Commissioners have decirively rejected the auggations that there should be a separate technological University in London, having as its centre tha Longarial College. They condemn the settlement of the London and the London and London a

External Students.

The University of London holds a unique position. In addition to serverising the ordinery functions of a University, it greats degrees on the result of cambination alone to atheless over whose instruction is than no control. The Commissioners, in the control of the control of missioners, in the control of the control of missioners, in the control of who are known to have come within the inflaence of a course of University teaching; that the force of copinion was too atrong for them. Though they appeared to have the will to recommend the abolition of the system of external degrees they have recognized the inexpediency of proposing so drastic a change It is often a far cer from the Report of a Royal Commission to an Act of Parliament but there is more chance of legisla tion now that the rights of the external student are not challenged Is seems to be thought sometimes that an external student is a man who crams up uniluminating text books apart from the vitaliz ng force of aral teaching This need not be so The external student merely claims to get his teaching where he chooses, not peces sarrly from the Professors of the University which aremines him -The Educational Times

CAMBRIDGE UNIVERSITY

A Donation

The Council of the Senate of Cambridge Uni versity have received through Professor Newall from a donor who desires to be anonymous. an offer of £ 10,000 towards the permanent on dowment of a chair of Astro Physics at Cambridge University provided the University is willing to supplement this sum by an endowment to raise the empluments of the chair to £ 800 a year The Council recommended that the offer can be accepted The chair of Astro Physics will take the place of the Plumian Professorahip of Astron omy, vacant by the death of Sir George Darwin

UNIVERSITY OF PARIS

The number of students in the University of Paris alone, in 1910 was 17 500, out of which 3 170 were foreigners -for the new University of Paris, in its short existence, has already to gained the renown which it enjoyed in Europe in the Middle Ages Those students were distribu ted as follows -

In the Faculty of Law 7 698, 900 being foreigners

- Medicine 4 080, 76a
- Latters 3,115, 1028 Sciences 1,843, 461 School of Pharmacy. 784, 18

The University of Paris does not make any dis tinction between the sexes. Its medal shows a central figure personifying science; on the right side a young man in his laboratory costume, on the left a young woman There are women doctors, women barristers, there are 'princesses of science,' as they are called the University of Paris has appointed to one of its chairs Mime Carse In 1909 there were 1320 women students, out of which 829 were fore gners According

to the French tradition, all the lectures in the University of Paris are free and open to the

public and there are always some lovers of learnis g and beautiful discourses who, although they are not students, come to hear lectures on their favourite subjects or by their favourite professort, especially in the Facul v of Letters.

____ TECHNICAL EDUCATION

Typen Bites Topics THE L. C. SWITH A. BROS. TYPEWRITES.

There is such a variety of typewriting machines that nothing but a careful study of the details of manufacture can help the user to make his selec-A sew departure has been macgarated in applying ball bearings successfully to type, writer construction. In the machine marufactured by Mesers L C Smith & Bros every typebar bas 15 balls (Fig 1) each one tested by scale to the ten thousandth of an such It must be noted that balls for the typebar should not be less than 622/10000 nor n ore than 628/10000 of an inch in diameter This exactors and accuracy justifies the assertion that ball bearings serve the same purpose as jewels in a watch. The above com pany own a ball making plant in order to turn out perfect steel balls.

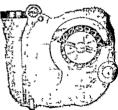


Fig 1

In order to transform rough rods of special steel into these polished, hardened, and perfect spheres ponderous machinery and a series of operations are required. When completed, these balls are worth nearly \$125 00 a part. The ball bearings do not wear loose and are capable of closer adjust ment than the ordinary frictional bearings consequently they retain their adjustment for a much longer period. In typewriting machine three mechanical features determine the character of the work at the printing point, namely, the typebars, the carrange, and the capital shift. All these operate in the L. Q. Smith machine of closely adjusted ball bearings and produce perfect worksmanhie.

Another important improvement in the latest model is the geard ball retainer, while the cylinder or platen, against which the paper rests and receives the type inpact, is a part of the carriage. At every finger stroke on the kry, the carriage advances and carries the paper along the width advances and carries the paper along the width of a single latter or character, expessing a blank space to receive the impression. When the type strikes the paper the carriage must be perfectly rigid and still as otherwise, the letter is blarred or wrongly spaced. This firmners is secured by the ball bearings which allow closs adviantance. (Fig. 2)

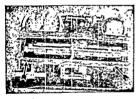


Fig. 2.

shows how the steel balls are held in place by the geared ball retainer.

(To be continued,)

A SCHOLARSHIP.

We are glad to hear that the Government of H. H. the Hajah of C whin have granted a scholarship to Mr. Peter D'R suito, a promising young man of Cochin, to proceed to England to prosecute his studies in Mechanical and Electrical Engineering.

. THE PROPOSED COLLEGE OF CONNECCE.

The Bombay Government Gazette publishes the scheme for the proposed College of Commerce as appeared by the Secretary of State. The teaching

staff consists of one Principal, calary Rs. 1.125. two Professors on Rs 875 each, and two lecturers on Rs. 300 to 500 each. The first two will be recruited from England and the third will be held by qualified Indians. The College will be under the Government control and affiliated to the Bombay University. Thirteen members constitute the Board of Management representing Government, private donors and commercial bodies. The Secretary of State in approving the proposals observed that this was a practical scheme well calculated to meet the demand which may be expected to make itself felt in India for the services of trained actuaries and auditors, more especially in view of the recent legislation, controlling Lafe insurance Companies and Provident Societies.

TECHNICAL EDUCATION IN MYSORE

The Mysore Government have approved of a scheme for the improvement of industrial and technical education in the State. The main features of the scheme will be of general interest at present when so much attention is being paid to this branch of education. The Government of Mysore appointed a Committee in October 1910 with instructions to formulate a definite policy and plan of work for developing industrial education within the State. The Committee now surrests that a college of technology should be started in Bancalore to cive instruction in higher engineering and the industrial arts. For secondary education, it proposes the establishment of a model school of technology in Mysore. The Committee succests that the existing industrial schools in the State should be improved and develoned, as far as circumstances permit, for the improvement of elementary industrial education. The Committee has drawn up model curricula for all classes of institutions which may be started in the future and has given an approximate estimate of the cost of their maintenance. In places, where the cost of starting such model institutions may be probabitive, it recommends the opening of special morning or evening classes. The two large institutions to be established at Bangalore and Mysore will be entirely Government institutions. The total annual cost of the College at Bangalore is cetimated to be Rs. 75,000, while a capital outlay of Ra. 3 lakbs will be required for initial expenses. The technical institute in Mrsore will involve a total capital expenditure of Rs. 40,000 and an annual recurring expenditure of about Re. 73,000. The improvements in the existing industrials are expected to cost a not additional sum of Re, 25,000 per sunum. The Committee recommendable institution of two scholarships of £300 each to be grant ed annually from the state funds to students offer ing to study any one of a specified number of important industries. The selected students will ha expected to study principally the practical and commercial details that may be of service to them in starting the industry in which they have quali fied themselves on their return to the State. In addition to these two scholarships, the committee recommends that two local officers should be con stantly placed on deputation in foreign countries, each for a period of not less than eix months at a time This recommendation is in view of the great importance which the Committee attaches to the necessity of the State being in touch with the latest developments in arts and industries in other parts of the world This arrangement will cost the State annually about Rs 30 000 for salaries passage money and allowances A special officer will be appointed to control industrial education on a salary of about Rs 1,000 per month It is wisely provi ded that no officer can be in charge of this depart ment for more than three years at a time, unless he has special aptitude for the work, as evidenced by the results achieved The total cost of this scheme will be Rs 5 lakhs in capital outlay and Rs 3 lakhs per annum for recurring expenditure -The I imes of India

A RAPID METHOD OF SHORTHAND WRITING

Many labour saving appliances have been introduced during the past few years, and it is but natural that time saving inventions should apply as forcibly to intellectual as mechanical pursuits This is particularly the case with regard to shorthand. For many years all simple systems were viewed with suspicion, because the public had conceived a deep-rooted belief that a shorthand system to be good, must of necessity be difficult and require years of patient study to acquire any degree of practical proficiency, Thanks, hwever, to the marvellously successful "New Rapid" Instruction Courses, invented by Mr P Harvey Hatchard, the Principal of Holborn Hall College, Gray s Inn Road, London, W. C., it is now possible to fearn shorthand in four weeks. The system adopted at the college as the well known Sloan Duployan method, considerably improved by the addition of many valuable principles of abbreviation, guaranteed to increase the speed of the student by at least fifty per cent, and quickly leading to newspaper and parliamentary reporting The claim " Legible as Print" when applied to shorthand may make some people who remember their own ex-

persences with other systems of phonography smile, and regard the claim with incredulty, but nevertheless truth is stranger than fiction, and it is a fact that the students at Holborn Hall, after only one month's study, are able to take down business letters quickly and accurately and read them without the elightest hesitation or mistake It is little wonder, then, that the college is crowded from morning till night with enthusiastic pupils eager to create new records in the world of shorthand, or to qualify in bookkeeping, typewriting or other subjects necessary for a business career. It is interesting to note that a Situation Bureau has now been opened and everyday requests come to hand from business firms requiring highly qualified assistants to whom good salaries are offered. The full secretar a course is deservedly popular, as it can be com pleted in two to three months, and is certain to result in the student rapidly attaining an enrishle position in the world of commerce For those students who are unable to attend at the school the instruction is carried out by means of admirably arranged postal lessons, despatched every week to almost every country of the globe. The success of Holborn Hall College has been meteoric but it is due to ment, and ment alone. It may be said, in conclusion, that students already possess ing a knowledge of another system need not hesitate to take up the "New Rapid," as their progress will be accelerated by the experience already gained One Holborn Hall student is now Secretary to the Duke of Grafton

Reviews and Hotices.

High Roads of Literature in three pooks (Thomas Nelson & Sons, London) 10d, 14, 14, 3d

These three books form a series of excelled handbooks for use in the lower classes of our Secondary schools. They comest of stories manyly total from all the literatures of the world set dilustrated by numerous pratrate, several of what are coloured, full paged ones reproduced from the paintings of the great statist. Here and their the books are interpreted with instructuration of the books are interpreted with instructuration of the secondary of the books are instructurations and the secondary of the books are represented and the books are represented and the books would be very much valued in every way in the hands of roang school keys, any of the lat, 2 and and 3rd Form

A BOOK OF HISTORICAL POSTRY. (EDWARD ASYOLD, LONDON.) 8d.

Historical incidents have very often inspired the poets and this small book is a collection of the more popular of such English positival pieces relating to incidents in English bistory from the time of the Roman invasion to the Charge of the Light Brigada. History when told in this smarrer can certainly impress itself on the young student's mind in a very effective and graphic manner though the post cannot often be trusted for accuracy of detail. This book ongular toe a valuable help in the imparting of bistory to impressionable minds.

The above series edited by Arthur O. Cooke promises to be invaluable for a clean grasp by young boys of English industry. Each book cives a complete idea of the processes and labour involved in finishing to perfection the thing or material which the finished stage is so highly helpful to us. For instance, in 'a visit to a cotton mill 'we find an introductory description of the cotton plant itself and a short account of the raw material being made ready into thread. The process of carding, warping, spinning, winding, sizing, and weaving are finely described as well as the crossing and intersection of the threads of the warn by those of woof. 'A day in a shipyard 'is very instructive and ought to be still more so for Indian boys especially who are gnorant of everything pertaining to that factor which has contributed in the greatest degree to the building-up of the glory and prosperity of he empire. The growth of a Liner from a mass of steel and timber to a perfected steamer with great impetus must present us a very fascinating picture of study and rannot but niuse into our minds an ardent desire to idvance our knowledge of ship-building and parigation. The two other volumes which leal respectively with leather working, and wool wearing, though not so fascinating as the former two, are still useful. The process described in wool wearing is very nearly the same as that in cotton though the preliminary processes are quite different. On the whole, the series amply illustrated with coloured pictures, with linatrative diagrams, and written in simple style, leserres an earnest attention from teachers.

LESSONS IN THE HISTORY OF INDIA FOR THE HIGHER CLASSES: Re. 1. LESSONS IN THE HISTORY OF ISDIA FOR THE LOWER CLASSES: As. 12. (MESSES. MICHILLIN & CO.)

There are two editions of this book, one intended for use by teachers (Model Lessons) in which the chief aim is to serve as a guide in the method of imparting knowledge to boys, and the other for the pupils (the Lessons) in which the hints and suggestions to teachers and the questions have been omitted. In the former, the main object is to so instruct the teachers that they may actively participate in each lesson by answering questions and repeating in their own words what they have read. The frequent insistence on a concurrent study of political Geography and the constant attention given to the study of cause and effect of the chief events are noteworthy features of this book, while what is known as the 'Lives of time' which are eminently useful for preserving in the mind of the boy continuity of the narrative is an entirely new feature. Topical lessons are here and there introduced which show an intimate connection between Indian History and external and general history. This last is especially useful in giving the student a clear idea of the motives and the situations which greatly influenced the develorment of the British power in India in its early days. The summaries given at the end of each chapter are intended to serve as skeletons on which more detailed facts may be filled out by teachers thomselves. The Pupils' Edition eminently serves its purpose of impressing on the mind of the boy what he has been taught orally and fixes on his memory facts which he would otherwise have forgotten. The style is such that the boy may bimself take notes from the hack and is modified as to develop his growing knowledge of English. The teachers' book for the lower classes is full of instructions and the treatment of the subject is thoroughly scientific and rational. These books have several features which mark them off from the general run of achool text-books on Indian History. We commend these books to all teachers interested in the teaching of Indian History on sound and practical lines.

THE ALBIOS READERS: LORDON: EDWARD
ARNOLD, (HOMBAY: LORGMANS GREEN & Co.)

Agson. (posset: 100 saints there & Co.)

These new readers contain good extracts from
modern prose and verse on various subjects
including sten such subjects sa! The conquest of

the air." In Reader No V there is the well known graphic account of ' The Wreck of the Titanio contributed by Mr Lawrence Beesly Hackneyed poetical pieces have been avoided as far as possible In Reader V there is at the end an "Empire Garland" of postical pieces beginning with Scott s Love of Country" and ending with 'The Call of the Empire" by C E Byles The several readers contain at the end a set of composition exercises which include questions on grammar The grammatical pertion is also treated in a modern spirit and embodies the anggestions made by the committee on gramma tical terminology for the simplification of English grammar Teachers who are tired of old fashioned books are sure to welcome these volumes which are illustrated up colour as well as in black and white The type and get up of the readers leave nothing to be desired

(1) A HEALTH READER POR INDIAN HUMI SCHOOLS, BY P C WERN: (MISSES MACHILLAN & CO, LONDON) Price BE 1/8 (2) THE WAT TO HEALTH: (THE ORBITAN LITERATURE SOCIETY: LONDON, MADRIAS AND COLONDO) Price As. 2 (3) Talks ON HEALTH, BY MES BEASON (THE O L SOCIETY LONDON, MADRIAS AND COLONDO)

A knowledge of the elementary principles of bygues and sentations to force importance to the swelfare cot to the swelfare of the community that, it is matter for wooder that the besu practically neglected in a great many of our schools. We remember a time when lyricene as such was achool subject. But these days have gone by. Perhaps the changes in methods of testing and the fawness of suitable books for use in schools much method with the country to th

(1) Mr. Wrens books an adourable present ment of the subject and quite up to date. It is, suitably illustrated and clearly pristed. The chapter on Infections Diseases is well written gring the causes, the methods of presention chapter devoted to the exemise of min. There are need to the exemise of min. There are also would be devoted to the contract of the diseases under different conditions. There are also valuable quotatons from such mineral book deserves to be very middly read.

(2) This is a cheap and useful publication, but we think that the remarks on p 23 regarding "Betel chewing" might be extended with greater force to the "smoking of tobacco" now a rising fashion. It will be useful to notice that in England measures are being taken to prerent navenile smoking.

(3) This is a book for Indian house-wises and is written with the sympathy characteristic of the author. It would have been excellent it is deference to Indian santiment, the use of burcharcoal had not been specially recommended on p. 69, though no its cleaning power it is really superior to wood charcoal.

EXERCISES IN GEOMETRY, WITH FULL SOLUTIONS AND FIGURES, BY HIRALAL L. KAJI, M.A. B.SC Proce Re 1

This is a neat little volume of about 150 pages divided anto three parts. The first part consists of easy exercises required in the solution of harder ones The second part consists of mis cellaneous exercises presenting some difficulty and providing a higher and advanced course of study' within the Matriculation standard The third part contains full solutions with figures of the exercises of the Bombay University Matriculation papers in Geometry There are on the whole more than 400 exercises judiciously selected and methodically arranged The exercises are purely of a theoretical character but the student may find enough practical work in the solutions of problems which are separately collected together at the end of the first and the second parts

To a willing student of Geometry the latter volume will provide ample acopp for an advance study of the subject. The terms concurrent, of the subject. The terms concurrent, of the subject is subject. The terms concurrent, of the subject is subject to the solutions of Miscoliances Exercises. In this part the author might have subject to the subject t

PUBLICATIONS RECEIVED. Studies in Local Self-Government, Education and Sanitation, by A. P. Patro of Berham-

- Daw and Mildow, by Percival C. Wron, M.A. London : Longmans. 6s. M.A. London : Clive. 7s. 6d. .
- pore. Madras: G. A. Natesan. 12 As. Life and Work of Pestalozzi, by J. A. Green,
 - An Introduction to Zoology, by Rosale Lalbam, B. Sc. London : Macmillan, 7s. 6d.
 - Junior Geography, by G. C. Fey, M. Sc. Loudon : Clive. 2s. od.
 - First Books of Science ; General Geography, by B. C. Wallis, B. So., F.R.G.S. London :
- Macmillan, 1s. 6d. Classified French Unseens, by W. G. Hartog, M A. London : Clive. 2s.
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- Barraclaugh, M.A. London : Clive. 1s. 9d. Classified Passages for Translation into French. by W. G. Hartog, M.A. London : Clive . 2s.
- The Philosophy of Marriage, Vol. I, by P. Krishpamachariar, Srirangam: U. P. K. Publishing House. Re. 1 4 Az.
- High Roads of Literature in 3 vols. Vol. I, 10d. Vol. II, ls. Vol. III, ls. 3d. London:
- Nelson. The Seashore I Know, by W. P. Westell, F.C.S.,
- and Henry E. Turner. London : Dent. 8d.
- Regional Geography of the World (in Telogo) Part I, India, by M. Sitarama Rao. Cocanada : Scape & Co. 10 As.
- English Grammar, by Otto Jespersen, Ph. D., translated, by Rao Sabib G. V. Bamamurti, B.A. Bombay : Longmans. 6 As.
- The Pupils' Course of Constructive Work, Set I. combined with Arithmetic, Drawing and Modelling in 3 parts. Book I, 4d. Book II, 54. Book III. 54. London : Macmillan.
- The Pupile' Course of Constructive Work, Set 11, combined with Geography and History, by J. S. Lay, in 3 books, London: Macmillan. Book I, 4d. Book II, 5d. Book III. 5d.
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- with applique work and cardboardmodelling. by J. S Lay, in 3 parts. London : Macmillan. Book I, 4d. Book II, 5d. Book III, 5d.
- Reform Arithmetic, by P. Wilkinson, B.A., B Sc. F.R A.S. and F. W. Cook, A.C.P., Book VI. Girls' Edition. London : Macmillan.
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- The Children's Story Books: Four Winds Farm. etc. 1s. Tales from Æsop, etc. 6d. Fairy Tales from France, etc. 9d. Little Wander-
- lip. etc. 9d. London : Macmillan. Lessons on Character Building, by W. H. Baldwin and W. Robson, London : Nelson.
- Elementary Algebra, Vol. IV. by Godfrey and Siddons. Cambridge University Press, With Answers, 3s. Without Answers, 2s, 6d.

le fid net

Four Figure Tables, Godfrey and Siddons, Cambridge University Press. 9d. net.

____ Indian Educational Hotes.

MADRAS.

An Association in Guntur -- Mr. D. V. Jaganadhan. Ha . Senior Hist Asst, Town High School. Guntur, writes :- The teachers of all the leading institutions-the College, the Town High School and the High School for Girls-combined themselves into an association with membership open to all teachers and such others as take interest in educational matters. A strong executive committee including six office-bearers (a president, 2 vice-presidents, a secretary, a treasurer and a librarian) was formed. The objects are to improve the work and status of the teacher and the special features being working in sections for subjects with one for elementary school work, a library and magazines and special steps to improve the status. The first thing is to recognize what is done for them. In this strain, resolutions expressing the congratulations and thanks were sent to H. E. The Vicercy, the former on his recovery and the latter for his assurances 'unchanged policy' and liberal policy in respect of educational matters; expressing thanks to H. E The Governor of Fort St. George for the great interest esinced in educational matters and for the nomination of the Hon. Mr. V. S. Sreenivasa Sastry to a seat on the Legislative Council; expressing to the Hop, Mr. T. V. Seshagiri Aivar thanks for work done and congratulations on his re-election, and to the Hon. Mr. V. S. Sreenivaea Sastry congratulations on his nomination and hopes of great

achievements. In addition to subjects that concern the teacher in his work, various topics of general interest engaged the attention of the association -The questions of minimum pay and famine allowances , the questions of Provident Fund and Mutual Benefit Fund, the questions of a special minimum in English and of specialisation at the 4th form stage, the question of supporting the proposition to form advisory boards, the question of requiring the S S L C candidates to undergo two years training etc, etc It goes without saying that there is a great need for combined and well organized action on the part of teachers and the S I T U calls for the same. There is an annual conference for the first circle. Will teachers of all important places form themselves into associations, will such associations form central associations to impart strength and pointedness, and will they bestir themselves for what they need as in the case of district and other conferences? Are teachers, who, by the right of their profession are expected to be teachers and critics of the activities all over, incapable of such wellorganized and well-disciplined combination? "No! They are not incapable They are yet a living force for all purposes of others and of their

Gopalasamudram School -On Monday 5th May the annual distribution of prizes to the students of the Gupalasamudram High School and the apprersary of the High School Association was celebrated with great eclat in the school hall at 630 p m. with M.R.R. S E. Vaikuntam Iyer Avi BA. BUE, Senior Liecutive Engineer, Travancore, in the chair Among those present were Messra I Stinivasa Iyer, B A., Principal, Hinda College, Tinuevelly : A Ramakrishna Iyer, B.A. B L. High Court Vakil, l'alamcottab , C. S Sundara Sastry, BA . L.T . beieuce Lecturer. Hindu College ; P. S. Subramany Jee, MA, LT, Payaics Professor, Modical College, Madras, and P. Subramania Sarma of Quilon. Between 5 and 6 p m interesting items of sports, competition for infants amongst which were word building, mathemat cal tripos, lime picking and gymnastics er gaged the visitors to the school compound Befreshments were also served, The meeting began with prayer and music. After the Readmaster a report which was a review of nor only of the school work during the year but also of the chief educational pronouncements of the year, a brief secome of the same in lamil was given by Mr P. A Sackara Iyer, BA, with an impresprogramme was the report of the working of the association by its secretary Next there was an interesting series of conversations in Sanserst, Tamil and Loglish, the most notable of which was a piece of declamation on "The Bestish Privilege of Grumbling" A scene from P Sambhandam a Masohira was also enacted. Special prises for three frems were awarded by Mesers. R. V. Viswaratha Iyer, B.A. B.L., High Cours Yahil, Tutic. 712 and A. Ramakrishna Iyer, B.A.,

B.L. Vakil, Palamontab. Prizes were as may as 75 including class prize, spriid prize for nature study sic and for sports and grimantic. The presided gave away the prizes to the prize with the prize of the prize of

A School Day Celebration.-The newly formed Old Boys' Association of the Board High School Dharapuram, celebrated the first School Day Celebration recently There was an excellent programme spread over the whole day. The old students were treated to refreshments in the morning Towards the evening, there was music and a tea party A group photo was then taken. The meeting began at 6 P M, with Mr. K. Ananthasubramania Aller. BA, in the chair There was a very large attendance of old boys. After the election of the officebearers for the year 1913 14, the usual tosats were proposed Mr Alaguriswami Reddian of Dalaronpatnam, proposed the first toast to the school in an elequent speach in Tamil, which was responded to by the Headmaster, Mr L S, Panchapakesa Aifer, BA.LT the second tonst to the Association proposed by Messre Narayana Dass and Ramakriebnan, BA, was responded to by the Chairman in a neat little speech After votes of thanks by Mr. Sundaram Alpar, BA , to the Secretaries, Mesers. S Narayanaswami Alyer and D. K. Krishtaswami Asyer, to the authorities of the school for the kind loan of the hall and to the Chairman, there was some interesting vocal music, after which the old boys dispersed and an eventful day came to a close-

The Presentation Convent College—The anomal distribution of press to the popile connected unit the College Department of the Presentation and the College Department of the Presentation of the College Department of the School for the last year. His treat the distributed headens and related prize to the School for the last year. His treat the distributed headens and related prize to the College Department of the College Department o

Mahant's School, Fellora.—The Interesting formion of the distribution of prices to the pupils of Ut. Str. Habant's Develants Hindu High behod Fellors, took place in the a-holf primate, a Vallora. The elited the cuty were present at the occasion and the chair was occupied by the Hindu Mr. T. V. Stabagiri iyer. The proceedings before

with a prayer and was followed by a number of recitations. Mr. P. S. Raghavachari, Headmaster of the School, then read the report for the year 911-12, and that disclosed that satisfactory progress had been made during the year under report. The Chairman next distributed the prizes to the pupils. With a vote of thanks to the chair the meeting terminated.

Madurantakam Union -The sixth anniversary of the Madurantakam Progressive Union was celebrated with great eclat on Thursday, the 15th instant, under the presidency of Rao Bahadur S. Ramaswamy Iyengar, BA, BL., Judge, Small Canse Court. Medras The function took place in the Edward Memorial Hall and precisely at 5 pm. the meeting commenced. The Chairman after a short preliminary speech introduced the lecturer Mr. R. N. Alyangar, Bar-at-Law to the audience, Mr. Alyangar addressed the andience on "Life in London" for about an hour. This was followed by a short and interesting speech by the Rev. Mr. J. P. Strianpton, BA, the local missionary with the aid of a map previously prepared for the purpose The proceedings terminated after a few remarks from the chair. Again at 9 pm. the members entertained the public with a dramatic performance of " Manohara" in Tamil by Mr. Sambandam. The drama was a grand success. The members acquitted themselves creditably.

A Young Men's Association,-The fourth anniversary of the Young Men's Association, Ranga-nayakulupct, Nellore, was celebrated in the V. R. High School Hell very recently. The gathering consisted of a large number of gentlemen and students of the place. Rao Bahadur T. Raghavaiya Garu, BA, officiating Collector of Nellore, presided The proceedings began with a prayer in Sanskrit and Telugu. Then the Chairman made a faw intorductory remarks in which he expressed his pleasure at the opportunity that was afforded to him for making the acquaintance of the students and gentlemen of Nellore so soon after his arrival there. The Secretary theo read his reports on the working of the Association for the year 1912.13. After this Mr. C. Malekoudsiya, u.s. read a short, interesting and very instructive paper on "The Choice of Books." Next followed a few choice scenes from Harischandra (in English) which were enacted by the members of the Association Then the Chairman rose smidst cheers and made a short speech. He congratulated the members on the excellent entertainment they had given and wished the society an active and neeful year. The Chairman and the lecturer were garlanded and the customary votes of thanks were proposed by Mr. V. Narasinga Rao, B A., BL., on behalf of the Association and responded to, whereupon the meeting came to a close.

Government Grants.—The Government have sanctioned a grant not exceeding two-thirds of the actual expectations, or Ba. 3.467, towards the cost of extending and improving the buildings occupied by the St. Joseph's European Middle School, Tellicherry.

The Government of Madras have sanctioned the expenditure of Rs 2,200 towards the construction of buildings for the elementry schools at Gamma, Ojjaigads, Namanagaram and Dothara in the Ganjam Agency.

The amount of the grant sanctioned in July 1911, towards the cost of constructing a building for the High School at Strangam has been, as a special case, raised from Rs. 10,000 to Hs. 18,000 on the understanding that the entire excess amount is deviced to the entiresions to the school buildings deviced to the entiresions to de school buildings deviced to the entiresions to the school buildings received to the conditions, that in carrying out the az reasions the suggestions of the Chief Engineer are adopted and thus all the conditions prescribed in the grant-in-Ald Code have been duly complied with in respect of the extensions. On these roadilions of the conditions of th

The Government of Madras have sanctioned a grant not exceeding one-half of the actual expenditure or Rs 27,153, towards the cost of extending the Tirukattoppall High School buildings, Taniors.

The Government of Madras have approved the proposals of the Director of Public Instruction for the distribution of the special grants of four lakhs and Rs. 30,000 for the equipment of Secondary and Elementary schools, respectively. The following are the conditions under which the grant will be silotted:-(1) that the amounts be distributed among the schools without insisting on a proportionate contribution from the management, (ii) that the special grants for Secondary schools be given not only to aided schools under private manage-ment but also to Local Board and Municipal schools. (ui) that the special grants to Elementary schools be given to schools baying standards above the fourth, (iv) that lump allotments be at first fixed by the Director for each of the Boys' and Girls' Circles; and Inspectors and Inspectresses be requested by him to furnish statements showing how they propose to distribute the amounts among the schools in their Circle, having regard to the special needs of each school, (v) that after a scruting of these statements the amount of grant for each school and the objects upon which the money is to be spent be determined by the Director and correspondent authorised to draw the grant immedistely on a bill countersigned by the Inspector or Inspectress of the Circle and required to submit vouchers in support of the expenditure to the latter for ecreting.

The Town High School Association, Kumbakenam —Ou theereuing of the 89th April this members of the Town High School Literary Association, held their sunversery in the Upper Half Professor Sundra Biama Aiyar presided. The school staff, the students both past and present, some prominent members of the Committee and parents of students had assembled in large numbers

The proceedings began at 5 rm There was a recutation by one of the students of Shakespeare's 'The Seven Ages of Man 'The Secretary read the report for the year which showed that substantial work had been done

Professor Sundara Rama Ayar then rose amidstcheers and introluced Mr. B. V. "Qubremnyam Ayar who lectured on "The Usefulness of Debaing Societies to Young Men." The lecture occupied full half an bour and though it must have been very trying to the lecturer in the dingy and sufficating atmosphere of the hall it was not in the least so to the nullens.

A Golden Jubiles—In view to the celebration of the Golden Jubiles of the Town High School, Kumbakonam, which comes off next April, visproposed to prepare a correct and complete hat of the clasms of the School, and they are requested to communicate to T K Syratman lyer, the Secretary, at their earliest convenience, their present designations and addresses

Madura Government Girle School — The annual principring of the Government Girle School, principring of the Government Girle School, on Wednerdey, the other hands of the Government of the Good, which we will be a supported to the Good, Trichy Madura Girle Range, in the chair School, Trichy Madura Girle Range, in the chair School, Trichy Madura Girle Range, in the chair School, Trichy Madura Girle Range, in the chair School of the school for 1912. The Guaranta then gave away speech on Female Education "With the Chairman a concluding remarks the meeting terminated"

Secondary Teachers' Conference—The annual Conference of Leachers of Scoodary Schools in the three northermness districts of the Presidency most at Nrs AV N College, Visag under the anguest of Mr C, Rausford, the Inspector of Schools, and the Conference of the Conference and the

closely and accorately so as to form in them habits of scruting which would result in the sharpening of their stuses Mr K Parabrahmam of Chicacole read an elaborate paper on "The Traching of History in Correlation with Geography" In the course of the paper be showed how the subject might be made to have its beginnings in nature study, or the immediate neighbourhood of pupilsthesky, the earth, the fauna and flors, together with the natural phenomena of every day life C Ransford in bringing the proceedings of the Conference to a termination, said that it was the first Conference in the Circle over which he had presided He regretted that more speakers on the subjects brought up for consideration were not forthcoming and hoped that the programme from the next year would be modelled on different lines. After the usual vote of thanks to the chair, the Conference dispersed

H. E. the foregroe open a Secondary School—As the spenning of the Munepel Secondary School of Outsoft Secondary School at Outsoft Secondary School at Outsoft Secondary School at Outsoft Secondary Secondary

His Excellency replied as follows --Mr Chairman, Mr Young, and Gentlemen -I can only say that it is a great pleasure to ther Excellenty and myself to be here this morning and to be able to join with you in inaugurating this new acbool. It seems to me a sign of energy and progress that this Municipality and those wi cm it represents should require these addi-I think, for these who come after us than to give them the fullest opportunity possible of developing their faculties, and making use of facilities which subsequent careers may offer to doing the best we can for them and I rejoice to think that Ootacamund, in opening this school, has afforded a further opportunity of this kind, and I hope it will be widely taken advantage of I am already aware that you have advanced a step for ther than is represented by this building, and that the Government have decided to add classes this school which will transform it from what I think is known as an is complete secondary school That, I believe, is to be done gradually, year by year until the full measures of a complete secondary school is attained I congratulate Octscamund on this evidence of vigour and desire for advance, and these additional facilities which Obtacamund ower Government, as I said before, I hope will be widely taken advantage of It will be a great pleasure to Her Excellency and myself to watch with interest the way in which these facilities are utilized, and welcomed, by those whom they are intended to benefit. I am very glad to be here, and it is no daty now to declare this school building cone which I shall now have an opportunity of inspecting." Their Excellencies, in company with Mears Hand-tock, Kernhaw and Yongs, and the Headmaster of the Control of the

CALCUITTA

Mahomedan Scholarships -The following Notice appears in the Calcutta Guartte above the signature of Mr. W. C. Wordsworth, officiating Director of Public Instruction, Bengal :- The Mahomedan officers of the Settlement Department under the late Government of Eastern Bengal and Assam have raised a fund, named "The Mahomedan Education Fund, out of which it is proposed to award, on the results of the Matriculation and Intermediate Examinations. respectively, two junior and two senior scholarships, each of the value of Rs. 90 per annum, to selected Mahomedan students who do not hold any other kind of scholarship. These scholarships are tenable only in the Dacca College, and the recipients must live in a hostel attached to that institution. In making the award the pecuniary circumstances of the candidates will be taken into consideration. Intending candidates must state in their applications whether they are bong fide natives of the Dacca, Rajshahi and Chittagong Divisions and of Assam, or have read in a school or college in those areas recognized by the Education Department. Applications should be submitted to the Principal, Daces College, through the heads of the institutions from which the candidates pass the Matriculation and Intermediate Examinations, respectively, as soon as the results of these examinations are published in the Gazette.

ALLAHABAD.

Primary Education — A small Representative Commutes will meet in Naio Tal early in Jone to consider the whole question of Primary Education in the United Provinces, both for boys and girls. Mr. Piggot, Jadicial Communitors will be Mr. Preside and among the members will be Mr. Preside and among the members will be Mr. lector. Moradshad, two Educational cifisers, the Industry of Mr. Ganga Presad Varma and several other non-efficial members.

Education in United Provinces—In the Resolation on the general report on public instruction in the United Provinces, the Livationat-Governor eags that it is a record of aubstantial progress achiered in almost all directions. The controlling

staff has been largely increased, and salaries of its subordinate officers revised, extensive reforms have heen carried out in the system of Secondary education, more High Schools have been established by private effort, pay and prospect of teachers in Government Schools have been improved, and more Training Institutions have been opened. The Heatel system has made notable strides in popularity and efficiency. Technical education has been entirely reorganized and expanded. In Primary and Female, education alone the advance has been relatively disappointing In connection with European education the notable schievement was the reorganization of the Martinere College at Lucknow to carry out reforms necessary to save this famous institution from decay Grants have been made by the Government and the Bigh Court of Calcutta has recently sanctioned the scheme which provides for the substantial increase in the annual payments to College and large building grants The average enrolment in the European schools was nearly five thousand and the total European and Eurasian population was about forty-two thousand. Aroning from this figure the report suggests that there is nossibly a considerable number of children who remain wholly uneducated. The Census figures. however, include soldiers and afford therefore no aure basis for estimating the school-going population. Available evidence indicates that the number of boys not sent to any school is extremely small, and on the other hand an appreciable number of girls receive little or no education owing to the inability of their parents to provide for the education of both boys and girls. The further weakness in the condition of European education is the very early age at which children leave school. For these defects the Government action can at best provide very partial remedies. The Lieutenant Governor hones, however, that it may by in his power to sustitute some scholarships for bors who desire to take University Degrees and to make grants to enable schools for girls to accept pupils on reduced

TRAVANCORE.

At the Eighth Session of the Travancore Popular Assembly, several Members prayed for a few achelerships being instituted in each school, irrespecture of the distinction between backward and forward classes. The Dewan admitted in realy that the Government recognised that a certain amount of encouragement might, in some cases he found becessary to be given to poor and deserving students, and he added that the question of scholarships was under consideration, and that, when the matter was disposed of, the Aided Schools would be allowed the same privileges as the Departmental Schools in this respect The Director of Public Instruction has since submitted a rehema for the matuation of scholarships generally. His Highness Gorernment have now passed orders on the subject. No fees are now levied in any of the Lower Grade classes of the Elementary Schools. the fees charged in the higher grade classes are normal: the number of the Higher Grade Elementary Schools is in the view of Government, large, and it is also rapidly increasing, and the parents could give their children education in these schools near their homes and for quite a trifling cost. The Government do not consider it necessary to institute either scholarships or allow any fee concessions in Elementary Schools In regard to Secondary Education the cost involved in the first four classes is not say the Government, great, there is at least one Lower Grade Secondary School in almost every taluk, the rate of fees charged in these classes is comparatively small Further, until a pupil passes through the highest form of a Lower Grade Secondary School it is probably too early to judge whether he could, with advantage go higher up On the whole the Government feel it needless to provide for scholarships or any other concessions in the Preparatory Classes or in Forms I II and III of the Secondary Schools In the Higher Grade Secondary Classes, however, the Government recognise that it may be necessary, in some cases, to give encouragement to pupils of real ability The Government would in these schools, prefer the institution of scholarships to the revival of the former system of exempting pupils from the payment of fees. The Government sanc-tion one scholarship of the value of Rs. (5) five per measure being granted to the pupil who passes highest from Form III of sach Recognised Lower Grade Secondary School (Departmental or Private) in the State and who continues his course in a Recognised Higher Grade Secondary School, Departmental or Private, also in the State These scholarships will be tenable for three years and will be granted irrespective of the question of the means of the boys. By this arrangement, each Recognised Lower Grade Secondary School would secure one scholarship, to send up annually its best student to study up a Recognised Higher Grade Secondary School for obtaining the School Leaving Certificate Regarding scholarships for the Col leges, the Government would proceed on the same principles as they have laid down above for the Secondary School Back Recognised Higher Grade Secondary School in the State will be allowed one scholarship, of the value of Hs 10 per measure to be granted to the student who gets the best School Leaving Certificate in it and who continues his education in a Recognised College in the State These scholarships will be tenable for two years.
In the BA Classes of His Highness the Mahsrajah's College, Trivandrum, five scholarships of Rs 15 each per measure, will be granted, one to oach of the students who pass highest from the O M S College, Kottsyam, and the Scott Christian College, Nagercoil, respectively, in the Intermediate Examination, and three acholarabine to the three bigbest students passing the same examination from His Highners the Maharajah's College, Trivandrum, and who continue their studies for the B. A. course in the Maharajah's College The BA scholarships will be tenable for the whole course. All these scholarships will be called His Highness the Maharajah's Scholarships This scheme will involve a maximum expenditure of Rs. 17 640 per aunum and will take effect from the 1st Mithauom 1088. The expenditure required for 1038 is Re 1,190.

MYSORE.

College Councils -The Government of Mysore have sanctioned the formation of College Councils for the internal management of the Central College Bangalore and the Maharojah's College, Mysore There is such a Conneil for certain Government Colleges in British India The Council will consist of the Principal and the Professors of the College for the time being, the Principal being en-officio President of the Council The Council will appoint one of its members to be Secretary, and the Professor as sppointed will hold office for one year, but shall be eligible for re election The Council is empowered to consider and report on any question concerning the College, whether as regards accommodation course of instruction or discipline But, except when such authority is temporarily or permanently entrasted to it by the Principal or by the Inspector General of Education, it should not interfere with the general administration of the College, which is vested in the Principal acting under the direction of the Inspicetor General of Education

BARODA.

Mass Education -In addition to making mass education free and compulsory. His Highness the Materaja of Gackwar has introduced attractive innovations such as travelling libraries and moving picture exhibitions to educate the masses The travelling libraries have already become very popular and there are 84 of them now Of these popular and there are 84 of them now Of these popular and there are 85 of them now Of these popular and the present of Eddes and 28 for the people of the depressed classes The total now people of the depressed classes The total now people of the depressed classes and 28 for the people of the depressed classes the second people of the people of the depressed classes the second people of the depressed classes the people of the people of the depressed classes the people of the p ber of books has gone up to meanly 4500 and private gouldmen are adding to 1 by gifts in private gouldmen are adding to 1 by gifts in memory of lowers of the scheme. It was suggested that each set should contain Mahabharat, Ramarathar each set should contain Mahabharat, and the religious works, and another suggestion made is to increase the number of boots in each how a lost it. in each box to 100 It is gratifying to leave that the books reach all classes and denominations lof the peopla. Mr. Gould who visited Brods, has suggested the formation of a children's library with illustrated books and pictures. The Education Department has just introduced moving picture and lantern cabible tions and Rs 10,000 has been sanctioned for this purpose A staff of men go about from plays to place giving free exhibitions of the pictures with suitable explanations In this way the taste for knowledge will be created and progress of school education for the masses greatly facilitated Tenty H. H. the Maharaja deserves to be congratulated on the wonderful manner in which he is striving to advance the cause of education in his State.

INDIA (GENERAL)

The Education of Muslims.-The Government of India have issued a circular letter dated the 3rd April 1913, to all Provincial Governments addressing them on the subject of Mahomedan Education:-As observed in Paregraph 57 of the Government of India Resolution No. 301 C. D., dated the 21st February 1913, the increase in the number of Mahomedans at school has been remarkable during recent years and in the matter of Primary Education this community now holds its own. In the matter of Higher Education, their numbers are still far below their proportion to the population. The Government of India are anxious that all reasonable facilities should be provided for the education of this backward community and take this opportunity of indicating the directions in which erquiry and special action will, they think, be usefal.

With some general observations they commend the whole question to the careful consideration of Local Governments with the suggestion that a committee should be appointed to make recommendations. The Government of India will be glad to be informed in due course of the general conclusion, which Local Governments have reached. They do not desire to receive particular schemes. but they are deeply interested in the question from the Imperial point of view and they will be glad to know in connection with the allotment of any funds which may be available what financial help is desired from Imperial revenues. Furthermore the Secretary of State has recently anggested that the annual reports of Public Instruction might with advantage deal with the progress of Primary Education among Hindus and Mahomedans respectively. This treatment as regards Mahomedans might well be extended to some special mention of their advancement in different branches and grades of education. Attention is invited to the supplementary tables regarding Mahomedan education in the reports from the Madras Presidency.

Foreign Hotes.

GREAT BRITAIN.

Entrance Scholarships at Cambridge—More than £10,000 were distributed to £16 aundistate for entrances exholarships at Cambridge Colleges between the beginning of December, and there are the entrances of March last, The largest amount was devoted to March last, The largest amount was devoted to March last, The largest amount was created to the contract of the contr

Open-air Teaching —An interesting experiment in open-air teaching is being made this ammer, from April to October, in the play promote Office Committee Comm

Untrained Teachers -The Annual Report of the Board of Education deals somewhat fully with the training of teachers in secondary schools. The Board do not attempt to minimize the seriousness of the problem. "Only a small portion," they say, "of those who teach in secondary schools have made any attempt to qualify themselves for their work by professional training;" and "a large num-ber of teachers are employed who are seriously deficient in professional skill." The Report goes on to say that "the work of a large number of those engaged in teaching is to a large extent ineffective; and that this ineffectiveness is, at any rate in many cases, partially caused by faults which are capable of remedy by advice and instruction ; and that there are often serious detects in the work of even the abler teachers, which are also such as might have been avoided by timely help," These are serious charges, and they are made by competent Inspectors who bave not been brought up in the tradition of a narrow professional training,

A School of Geography—The Yorkshire Summer School of Geography will be held at Whithy Irom Angust 4 to 23. The buildings of the Computpose. The Summer School has been instituted by the Universities of Leeds and 6th filled with the cooperation of Armstrong College, and of the properties of Leeds and Schiffield with the cooperation of Armstrong College, and of the school is to provide theoretical and practical instruction in the method of Geography and to farmin opportunities for the discussion of problems containing the control of the discussion of problems contained to the discussion of the discussion

Prof. F. W. Moorman, B. A. Ph. D. Mr. A. Gillipan, B. Sc. F. G. S., Mr. L. Rodwell Jones, B. Sc. Dr. W. G. Smith Ph. D. Mr. W. P. Welpton, B. Sc., Mr. P. W. P. Welpton, B. Sc., Mr. P. W. Dodd, B. A. Other lecturers will deal with special branches of the work The charge for admission to the whole course is 23, and the number of students will be limited to about 200

LITERARY NOTES.

The Renowner of Land Value — In a volume scaled "The Booomnes of Land Value," which was given to be published on May 14th by Mr. Unwin, Mr. Harold Storey, Secretary of the Vorkshire Liberal Federation shows the extraordinary postion held by Land in the production and distribution of weslife. He brig's and clearly explains the that can be claused by the versions cleases of the community, and argues that unless some remedy can be found the growth of land resis will increasingly imporessible the growth of land ents will increasingly imporessible the growth of land ents will increasingly important the growth of land what it cannot do, and by fresh into of argument proves the necessary for other supplementary forms proves the necessary for other supplementary forms proves the necessary for other supplementary forms abalanced statement of these than the to be met by any precision.

Lufu of John Bright — Mesers Consiable announce that they have in advanced propriation the authorised "Life of John Bright," by Mr G M Tereslyan, author of the popular books on Garabaids and the well known critical study, "The Poetry and Philosophy of George Mesetths" Thas important book, which will be profusely illustrated may be expected shortly

George Bell and Sons — The firm became a hunted company in 1910. Although this in the Bohn tradition a connected history of a bundred years, and it is just 19 years since George Bell was born, and it is just 19 years since George Bell was born, the Llouse is now in its third generation. The founder, Kanneth N. Bell their upper, whose special concern site educational department; and Mr. Gulbert A. Williamon. The secretary, Mr. Il stynenth has been with the House in various company well ensistent the traditions of the House founded by George Bell Numerous works dealing with set, architecture, portry, belle letter, classic, with set, architecture, portry, belle letter, disastron in the control of the House in the control of the House in the company well ensistent the traditions of the House founded by George Bell Numerous works dealing with set, architecture, portry, belle letter, classic, the set of the set of the control of

successors household words with a wider circlethat great and growing public that welcomes good books at a price comparable with that of the ophemeral and worthless, of which it has more than enough

Luft. Books on Art—The latest adduce to Mesers Metherns swell known "Intile Books or Art's "Daily Baglain Water-colour" by Mr. G.E. Higghes Broadly speaking, the Early English School of Water colour uncludes all ratios in that medium who were born between 1720 and 175 The term Early English in however, in work of many later attitus resembles in subject or method that of distant predecessors, and a classification of the lines suggested by such resulbances has been one of the chief axises of the suther of the art on the control of the subject of the control of the control

Simplified Spailing—The authorities of the Simplified Spelling Society announce that they are about to publish a "First Reader" for very Young children. It will be prepared in accordance with the Report of the "Eyesight" Committee of the British Association.

The Making of Historical Fiction—A neeful summary of "The Making of Historical Fiction" by Mr Ernest A Baker, appeared in T. P. 8 Weslip for April 11th Many teachers who have charge of school libraries will find therein justifices reference and titles which will render them great assistance.

Recover Psychology — Psychology and Industrial Efficience, by I large Manacheriq (Constable, 6, not.) Students of the older psychology may find a difficult so to re-adjust their conceptions as to accumodate the new science of economic psychology and produced by the contract of the contraction of the contract of the concesses, and still less does its approach the programs of psychology and proposed proregions of psychology and proposed psychology and produced psychology and produced psychology to the contract of the contract of the contraction of the contract of the contract of the best of the contract of the contract of the contraction of the contraction of the contraction of the contract of

The French and the Ecolash by Lacrice Jarvold (Chapman and Ball, 7s. dirad) algoridh has not lost bu knowledge of Ecolard and the second of th

woman have red bair, but in the spirit of a philosophic sportsman who, baving started his quarry, is resolved to pursue it relentlessly and beat every bush in which it may conceivably concest itself. His dominant idea is that the difference between the average Englishman and the average Frenchman as the difference between poetry and prose. It is a difference which the literature of the two countries indubitably reflects. A French Shelley is unthinkable; and an English Moliere at all events does not exist. Mr. Jerrold seeks, and finds, a similar line of cleavage between the manners, institutions, habits of thought, and points of view of the two countries. The Freuch, he insists, are more intelligent than the English, and more artistic because they are more intelligent, and, at the same time, more orderly, more practical, more obviously conscions of a definite objective in the conduct of their lives; they march towards attainable goals. and are generally clever enough to attain them. The English, on the contrary, are on an average stupid-equally indifferent to art and to ideasbut are redeemed by a hidden vein of poetry and addiction to dreams and visions, and a latent possibility of remantic extravagance which the Franch sometimes admire, but seldom understand, and hardly ever imitate.

Messrs. Macmillan & Co. announce the publica-

The Works of Gilbert Parker. Imperial Edition. With Frontispieces and Introductions. In 18 vols. Bine cloth, extra gult, gult tops. Swo Ss. 6d, net each; Vol. I. Pierre and His People. Tales of the Far North, Vol. II. A Romany of the Snows, Vol. 11I. Northern Lights; Trans-Himalaya: Dis-coveries and Adventures in Tibes, by Sven Hedio. Vol. III. Illustrated, Svo. 15s net; The Fringe of the East: A Jonney through Past and Present Provinces of Turkey, by Harry Charles Luxach. Hinstrated, 8vo. Lollardy and the Reformation in England, by Dr. James Gairdner, c.s. Vol. 1V. Svo. 10s. 6d. net : Dante, Goetho's Faust, and other Lectures, by Herbert Baring Garrod, M & Edited by Lucy F. Garrod. With an Introductory Memoir by Gooffrey Garrod, Crown Svo. 3s, 9s net; The Statesman's Year Book. Statistical and Historical Annual of the States of the World for the Year 1913. Jubilee Issue. Edited by J. Scott Keltie, LLD. Crown 8vo. 10s. 6d net; A History of Cavalry from the Earliest Times. With Lessons for the trom the Estliest Times. With Lescon for the Fetura By Colonel George 7, Denia.n. Second Edition 870, 10s. 64, next The Challenger For Words From The Honor Little Street, For Words From The Honor Little Street, Mrs. Molesworth, and The White Rat and other Striess by Lady Batter, 1st Little Wanderlen, Little Stires Ear, The Mario Valley, by A. Suin, Little Stires Ear, The Mario Valley, by A. Suin, T. Reteng Francy, the Duart's Scortables he Mrs. Tales from France, the Dwarf's Spectacles, by Max Norday, and Tales for Children by Frances Browne, 94 Pables from Esop and Nursery Rhymes, 64 The Children's Shakespeare-Scenes from the Plays,

With Introductory Readings, Arranged as Continuous Readers, with Noise and Exercises in Composition. With 4 Illustrations in seach book, Crown Sto. Sewed, 44. each; Icoht, 5d. each,—Jalius Gress; Educational Administration in Thoronduck, Elies and State State Stat

Letters from Solitude and other Resaus, by Filson Young (Chapman and Hall, 5s, net), These charming napers need no praise. They have already largely incressed their author's widespread reputation as one of the most thoughtful and delightful writers of the time. There are four-and-thirty of them. and all of them are different, save in the freshuess of their view and in their uniform urbanity and grace. Mr. Young is fond of travel, and many of the papers are "travel-pictures" of rare beauty and imaginative force. Whether the solitude from which he writes be in France or in the West of Ireland or in the tropic isle of Tripidad, he is sure to see things that no one else has seen, and say the things he has to say as no one elso would say them. His business, he tells us, is " to study buman nature in as many places and under as many different conditions as possible," and wherever he goes he is continually engaged in "the curious process of manufactoring literature out of life.

Boron:- Slight variations may take place, but to all intents and purposes Byron is classed once for all. No competent critic will ever deny his somewhat febrile but still overpowering force, his originality after a kind, his close connection with and understanding of certain not specially exalted or even specially interesting, but genuine, widespread, and constantly recurrent, moods of the modern human. miad. No one will ever deny the power of his verse as a poetical intoxicant in certain cases. But also no one will, except with the largest restrictions and qualifications endorse that astonishing endortement of Mathew Arnold's which gives the arrangest poser of modern times credit for "sincerity." No one with an ear and an education will condone his hideous formal lapses and sloveniness, no one will dear the strange vein of valgarity which alloys his work as well as his life. It may still be the amusement of some to weigh him against other considerable poets like Wordsworth, whose blemishes are different from his; it will never again, with critics who are not crotcheteers, be possible to compare him to much less to put him above, poets like Shelley .- Saturday Review.

The Story-lock in Hut.ry grows more and more common. Baldwin's "Fifty famous people" are which will have far reaching consequences is that which demands the abolition of the rules restricting the number of times a candidate can apply for the University Lyamina tions. We think this resolution does not go far enough Every University ought to provide for the clever student and the average one, there ought then to be two sets of courses and of regulations, the former stiff and stringent, the latter to suit the less intellectually ambitious. The pass course should be such that failure ought to he ex centional It is absurd that a University should educate any pupil and send him out into the world as a failure. To avoid this not only should the 'pass' student be allowed to compete for examination ad libitum but should be enabled to take his examinations-Inter mediate and Final-in easy instalments all means restrict the 'bonours' men to one shot and no more, but the mere 'pass' man ought also to be helped to wriggle his way out through the door of the 'pass' degree Of course such a ' pass' degree would not be worth very much but a pass' B A will anter life with more self respect than a 'failed' B A The present B A degree is neither a pass one, being much too difficult for it, nor an honours one, but a bad blend of the two

On the same days as the Trichinopoly sittings of the S. I T U . was Yet another Con held in the Mrs. A. V. N ference. College, Vizagapatam, a Conference of about 200 teachers of the Ganjam, Vizagapatam and Godaveri districts Lvery Secondary school in the let Circle was represented. The large attendance was due to the enthusiasm of the teachers in this circle which was fostered by the grant of travelling allowances by managers to the the S I T U can induce managers to sand tion travelling allowances to its members, there will be a bumper house whenever it meets The Vizagapatam Conference was presided over by the Inspector of Schools, 1st Circle, at did not, of course concernateelf at all with educational politics-the sole concern of the S I T U., but considered modern methods of teaching school subjects, on which the 1st Circle has 'specialized' for the past 612 Papers on the aim and scope of elementary science number and space work in Elementary Mathematics, geographical control in History, and Drawing as an auxiliary to teaching were read and demonstration classes were held in which the methods advocated were illustrated in practice While schnowledging the great good such Conferences are sure to do, we are of opinion that teachers of such subjects as English, Mathematics, etc. throughout the Presidency should form societies and discuss their methods of work In such a case, there will be no chance of men taking part if debates on the best methods of teaching subjects which they know noth ng about The successive stages of man's civilization

teachers who attended the Conference If

have been associated with The age of steel. the material used by him for his tools The stone age, the brief copper

age, the brouze age, the iron age have succeed ed each other and we are now in the age of steel, the country which make most steel and most of steel, being now the leader of the world's progress. It will hence interest school teachers to know of the various kinds of stoe now manufactured Instead of carbon, so widely used to harden iron into steel, other elements are now used. Thus there is nickel steel. Nickel steel is twice or three times as hard as welded iron. Nickel alloys are used largely for ship-building, electric appliances and valves. Chromium steel, Jungsten steel, and molybdenum steel resist the action of acids five times more strongly than unalloyed iron plates. These steels tempered by a special process are now used for all kinds of tools. The most recently discovered tool steel is vanadium steel, but it has not come into common use, on account of the cost of vanadium. Krupp has very recently patented an alloy that is so hard and infusible that in future "the scientific safe-burglar will exercise his noble art in vain." Manganese steel is used for grinding operations because of its hardness, but it is not malleable, though it can be bent in the cold state and is thus very safe against breaking. Lastly there is the silicon steel which stands high strain and is used for dynamos, alternate current motors, and transformers.

Now that the S. S. L. C. scheme has popularized "practical Laboratory work" by pupils, it is work in schools. worth while to consider the aim and method of school work in science. An American schoolmaster, writing in the School Science and Mathematics, says:-Laboratory work should be made the centre and heart of all high school science teaching. There the pupil makes his study of things, exercises himself in intelligent observation. and seeks to understand what is noted and interpret his observations. All lesson preparation of whatever nature should be done under supervision, and at a time when and in theroom where, apparatus and reference books as well as the belp of the instructor are at hand. The experimental work should be

supplemented by class-work. The teaching procedure should consist of three parts: (1) a series of laboratory experiments and exercises preparatory to the teaching of the succeeding class period. The laboratory papers of all pupils are to be handed in at the close of this work for review so far as shall be possible; (2) in connection with a class review and discussion next day of these laboratory papers. now again in the hands of the pupils, such teaching, illustration and applications as the teacher can give, guided and assisted by a carefully prepared outline. Here it is that the subject should be developed to meet the several abilities of those under instruction. but as class, work rather than individual instruction. Text assignments for the following day are to be made: (3) a thorough quiz upon text matter and outline topics not previously covered in the teaching period, thus making complete the discussion of every topic in tern. As each larger division is completed, problems, quantitative experiments and exercises as applications of the teaching done. These are to be followed by an examination upon the division of the work covered.

The Royal Commission appointed to consider the question of the London reform of the London University University has published Reform. an elaborate report. One important point raised by the Royal Commission is of special interest to us. It deals with the constitution of the University. The Commissioners propose that the supreme legislative body should be a court of about 200 persons representing all interests connected with the University. This court will correspond to our (Madras) Senate. The.

Senate (our Syndicate) consisting of 15 members. So far everything is like our own organization in Madras. Now comes the povelty The educational work of the University will be in the hands of the Faculties which will consist wholly or mainly of teachers These bodies will determine the condition for the award of degrees and diplomas, the courses of study and the conduct of the examinations, but they will not issue syllabuses, for this is a matter for the professor, in consultation with his col leagues in the same branch of learning. The proposals of the Royal Commission in this respect are utterly different from what obtains in Madras Here too, faculties exist. but their only function is to elect a Chairman once a year and the Chairman exercises but one function—that of consenting to be elected. We will not call the Faculties a farce, for farces serve some purpose in life they keep you amused and a Madras University Faculty serves no purpose In Madras the Senate and Syndicate have robbed the Faculties of their legitimate functions. The Senate being a composite body has no business to deal with the course of studies to be included in the Arts or Laws or Medicine or Engineering , this is specially the work of each separate Faculties If this were realized, the recent exhibition would have been impossible-that of fifteen Tellows-ons educationist and the rest Vakils and othersattempting to ruin the organization of our colleges professing thereby to stop the killing of the vernaculars and stumping the country and asking the Government to cancel the decision supported by a body, three times their number Will any Fellow propose that the Faculties should be invested with definite

executive powers will be exercised by a small

control of University studies? Or if we are so destined as to be old fashioned in our arrangements as to leave all questions to be decided by the haphazard decision of such a mixed body as the Senate, why not abolish the Faculties?

The Headmaster of Eton writes on this most difficult and important subject in the Educational The strual Times for Annil and we relet

instruction of school children

to the article in view of the fact that opinions dangerous to society held on this subject by prominent Theosophists recently became the subject of discussions in Madras Civil and Criminal Courts. Luckily very few schoolmasters in South India are Theosophists , hence what the Hon and Rev Edward Lyttleton, D D, Headmaster of Eton College, wants schoolmasters to do will be practicable here, and that is that the school teacher, of course, where possible in conjunction with the parent to explain to the function of reproduction, children the one hand to associate it and on with the reverence that is due to parents and on the other hand to treat it in the severely scientific spirit with which sexual reproduction in plants is treate'd. The main facts of sexual hygiene have to be taught to children and they must be trained " to turn with loathing from any carriesters of the facts and it must be remembered that all impure task is of the nature of a carr cature There is something often naturally attractive about a caricature, and so the personal affections and the sense of mystery with which a child thinks about his own life must be enlisted, if the trath is to be received with awe and the travesty of

the resolutions of the Conference to remove the question from the plane of emotion to that of reason. He rightly complained that in the minority of fifteen who valiantly fought for the compulsory "vernaculars," "there were some whose attitude towards the vernaculars leaves much to be desired, if it

does not actually convict them of consistent

inconsistency." He regards it "a mistaken

policy to agitate for a recasting of the whole

scheme of University education, simply be-

cause in one centre it is difficult for students

to secure the full privileges to which they are

entitled under existing regulations," and that

the debate of this question in the Senate

"could hardly be described as an exhibition

exorted his hearers, vainly as we find from

THE

tions have given a great stimulus to the production of books in modern vernacular prose by men who have received University education-a thing which half a century of the old Regulations failed to produce. The minority of fifteen Fellows want to upset all this and put back the hands of the clock! They call this the encouragement of the vernaculars to boot! Mr. Gardiner has taken great pains and marshalled many facts and arguments to prove his case and if people still

continue to misunderstand the question, it will

be because they do not want to understand it.

supporters of the proposal suffer, in our

opinion, from an atter inability to appreciate

the real question at issue. The new Regula-

SIR A. SASHIAH SASTRY, K.C.S.I., Indian Statesman—a Biographical Sketch

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SUPERVISORS OF ELEMENTARY SCHOOLS

NO make a body of workers think much about their work is always a consummation devoutly to be wished, for thought breeds concern, and the right kind of concern develops into culture. Here in India the mflaence brought to bear on the members of the Subordinate Educational Department 18 in some respects of the wrong kind the methods of work appear to be essentially deductive and not inductive-subordinates have too many schemes to carry out and too few to help in initiating Perhaps this accounts for that lack of "specialists" which one notices in the Department, and gives colour to the accusation that the Department's methods are amateurish

Improvement must, of course, come from within, it cannot be thrust down with official force through the official channel Men of light and leading, travelled and cultured men. may meet at the official board, consult the practice of other nations, and draw up a scheme of studies which breathes modernity. but they can scarcely guarantee more than that it will command respect Of a truth the low-naid official will receive it with due deference and use it with blind faith, but will he necessarily understand it 9 Experience would seem to say, "No" And why! Is it not because he feels he dare not criticise? Commenting on the work of his Supervisors, a certain Assistant Inspector of Schools writes "The Supervisor more often than not assumes the carping attitude to leave himself a way of escape from his enemies, for constructive criticism is his weak point, he deals very largely in generalities, and bandies educational clan trap , intellectual mertia is with him an obsession, if thought is proffered, it is the undigested thought of others, practical schemes he rarely thinks of"

If this be se, I am sure it is because the whole influence brought to bear on the Supervisor is stupefying in its effect. He is not asked to think, to be original, he is asked to preach the doctrine of others, whether it appeals to him or not

How important a role is the Supervisor's? To put it briefly, his duty it is, as I take it, to see that education does not tend to domineer, but dominates the people to use the valuable distinction of an American writer For who is it who knows the sentiment of the people best -who is it who is most in touch with the spirit of the age, or has the best chance of sounding it? Is it not the Supervisor, who spends the major portion of his time with the people? To thrust doctrine down from above instead of leaving a way open for it to evolve from below is to adopt a course of action which may make educational activity a force mendiously apart from the people the genius of the people, that ethereal spirit so hard to get in communication with, may hang its brused head, and things may be done over Why is not the experience of Supervisors indented on more ?-why should their function be only that of carrying out the instructions given by superior officers, and not also that of suggesting new lines of action and changes in policy? Of course their suggestions need be nothing more than suggestions, given as such; but what I think is necessary is that those suggestions should receive the attention they deserve from officers higher up in the service. At present the Supervisor is far too timid a being to think out problems for himself, and needs to feel that thought and criticism are expected of him, and that official schemes of work are not to be taken as immutable documents, or that the detection of flaws in them implies disrespect for the authorities. He should feel that he is entitled to hold the opinions he does

To popularise Primary education is to make it dominate the people, and to achieve this end we need a band of workers who are convinced of what they preach, and to whom

each word they utter has a very definite meaning To say that our Supervisors are all incompetent men, or to insinuate it, is to make a statement which is hard of belief; and to decy that there is a plane on which they might do their reasoning is to fly in the face of psychology The fact is that their work needs to be better defined for them, and the kind of reasoning expected of them indi It is surely a pity to let their experi ence lose itself in the wiles and wastes of their perfunctorily-written disry, which is lodged in the Sub Assistant Inspector's Office week by week, instead of its being served up in such a form that it may be available for purposes of illustration to higher officers. 'Theses in the process of manufacture' might perhaps describe these written opinions of Supervisors, the work of co-ordinating and editing the material resting with the Assist ant Inspector So might we hope to find spring up a body of literature as able in its own line as that issued by the English Board of Education, dealing directly with problems alive with interest in a practical, business like manner, and so might the reproach of amateurishness vanish from the Department So also might the people join hands with the Department, and work for the advancementnot of "modern" education, but of Indian education run on intelligent indigenous lines, and meeting the actual needs of the people Courage is needed—courage to face facts and to admit that the present methods of work of the Department are rather too rigid, and in a way tend to stiffe thought rather than en courage it-courage to banish that sollen pessimism which tacitly seems to assume that there can no good come out of whatever is LDWARD HENRY ANDERSON indigenous ____

THE MADRAS UNIVERSITY AND THE INDIAN LANGUAGES

I N the March number of the Educational Review "A Retired and Estemed Educationist" coolidate the series of articles upon this important topic, and gives for the benefit of his readers a summary of 1 is observations, as below —

(i) The neglect of verneculars in this Presidency is due not to their exclusion from the compulsory courses of the University, but to their exclusion from the School Final Course

(u) The agitation for the reinstatement of

the vernaculars is due "to the instinct of self preservation of the Paudit, the selfishness of the Vernacular Examiners and the pseudo patriotism of the grievance monger. It is a phase of the reactionary spirit osteosibly in the interest of Hinda religion and traditions engineered by men who have never themselves cared to get a first hand knowledge of the vernacular literature."

(iii) The reintroduction of the verusculars

"is calculated to outrage the feelings of the
Mohammadans and Indian Ohristians" as their
young boys will be compelled to imbibe a
religion and traditions so opposed to their
own

(iv) The ancient vernacular literature has no culture-value and will foster caste exclu siveness and superstition thereby preventing a real union of the Indian people

(v) Its study bampers the growth of a healthy modern literature in the vernaculars, and the spread of modern ideas from the educated to the masses

The first of this formidable array of reasons admits the neglect of these Indian

lauguages but ascribes the neglect to the School Final Course. This position assumes that the amount of the vernacular that a stadent can learn in his school course is quite enough as an equipment for I for The validity of this assumption is open to grave doubt

As regards the second argument it may be said at once that the Pandit might as well be left alone now that those more competent than our esteemed' but aponymous retired educationist have begun to think better of Besides he is not on the Sepate and has nowhere shewn himself in evidence to this connection Greater recognition and more adequate teaching of these languages do not necessarily mean that the Pundit should teach these, it is open to the genu me patriotism of our esteemed educationist to do the work if he can, as perhaps we are warranted in assuming All else that the esteemed educationist thought it worth his while to put in writing in this connection discounts a great deal the esteem one would fain give him for the time and trouble he bestowed upon this subject It would be safer to assume other people as hopest as himself, however misguided their notions may be

Argument three deserves as little orcdit On the same lines of reasoning Greek and Latin should be forthwith abolished from Little and the control of the control of the cere satisfactory to have the feeling that anch an absard notion is not likely to be entertained for a moment, at any rate not on the grounds addreed.

In regard to the next reason against the introduction of these languages it will take a good deal of demonstration to prove the absence of culture-value If what the esteemed educationist offers in support of his position are the only arguments on which he bases his contention no one need feel that any damage has been done to the other side, for the simple reason that the knowledge of Tamil literature displayed therein is something setoundingly poor. The Persnic absordities held up to view are absurdities that are the common property of all early literatures to a great extent. Let that pass.

That the study of ancient literatures hampers the growth of a healthy modern literature and the apread of modern ideas does but little credit to the experience of the retired educationist. If he will but take a little trouble and go through some of the modern writers of Tamil he will discover very soon that those that can write the simplest Tamil are those that have considerable acquaintance with the older literature in the language. It is generally those that are auxious to exhibit their half-learned skill that parade their little knowledge and cover their ignorance under the high sounding name modern as if modern Temil is something quite distinct from classical. This cannot but be regarded as an attempt to set up a false alarm that religion is in danger, that real culture is hampered and that it is forcing Hinduism down unwilling threats, These are arguments, to say the least, of interested people and can be applied in their entirety to a large part of the English literature we are asked to read in schools. The objection will apply in full force to the study of Milton on the one side, Mili and writers of that class on the other. Yet no one Hindu or Muhammadan ever thought of raising the question so far. It only demonstrates how rapidly we are casting off our old ways of

thinking and getting to think in quite a new style, and how the University itself is moving with the current thought of the enlightened.

It is refreshing, however, to pass on to the presentation of the problem by the Rev. Mr. Gardiner of Trichinopoly. With much of what he says no one need quarrel. It may be said at the outset. however, that there is considerable haziness in respect of what these in favour of the "Vernaculars" urgs at necessary, and it will conduce to clearness to state the case clearly and somewhat more fully than has been done so far. That those responsible for the drafting of the new regulations had neglected to provide for the vernaculars is admitted on all hands to be blunder and the action of the Government in introducing these much abused languages on the curricula is so far generally approved The same Government also stated that what could then be done was but an inadequate substitute for what ought to have been provided for in the regulations. If the Government is quoted for one part their opinion must be allowed to have some weight in the other as well. All the claptrap about religion and outrage to sentiment is quite out of There are some genuine Pandis among some of the fanatical classes of Muhammadans; and they have so far not complained. The University is concerned with problems of education, and should have nothing what ever to do with the troubles of the social reformer and his friends who have their own particular programme, not to say hobby. Leaving these aside then, the question as it is understood by those in favour of a better position for the vernaculars is this:

Is the present position of the vernacular in the University scheme of studies such as to ensure such knowledge of the vernacular in the graduate as to make him do his duty to his countrymen by diffusing the light of learning among his less fortunate countrymen through the medium of the languages of the country rather than those of the learned? It must be clearly understood that 'vernaculars' throughout the discussion is taken to include the classical languages such as Sans krit, Persian, &c , as an acquaintance of these languages makes a knowledge with the verpaculars easy It appeared to Govern ment in 1906 ' that if those who have secured a University education are to do the best for the country with the education they have received, it is imperative that they should preserve a sound knowledge of the verna culars" Those in favour of the languages of the country in the Senate and elsewhere ask for nothing more than the carrying out of this principle to its logical conclusion

It may, however, be stated at the outset that these languages do occupy a better position in regard to the specialised courses than they did before Those of them that take these either singly or in combination in Group III have a course that would enable them to specialise, and of this the so-called agitators have nothing to say. But it must be remarked in passing that the more important Colleges have quite failed in their duty by not making adequate provision for their study in spite of the professions that some of their staff have been making as to the character of the courses and the quality of the teaching I am not overstating the case at all as the Rev Mr Gardiner has nut the matter very much more forcibly in his address to the South India Teachers' Union. Leaving this indifference of the Madras Colleges aside as having nothing whatever to do with the University Regolations as they are, there still remains the question which is the main point at issue. It is matter for regret that on this particular we have to join issue with Rev Mr. Gardiner.

Leaving the specialising groups and the Honours Courses apart, it is pertinent to ask the question whether the regulations as they stand at present do provide for a sufficient acquaintance with the languages of the country in the average graduate. It must be remembered that we are concerned with the Pass Courses only to regard to this question It must also be remembered that the Pass Course is intended to be a wider course than the Honours Courses, and seems primarily meant for the official and the business man In such a course as this do the vernaculors occupy the position that they should? Classi cal languages are allowed to be substituted for the vernaculars only because it is ordina rily the case that one who has sufficient acquaintance with these languages easily acquires the necessary command of the vernacolars Taking it then that this substitution is only a special concession it will not be amiss to speak of vernaculars alone for simplicity

The Regulations of 1906 as approved by Government, provided that the Intermediate tundents should bring up compolsorily a vernacular composition as a test of his capacity in the mother tongue. It must, however, he borne in mind that this was done with the obvious intention of not having to revise the regulations too much. Therefore it is at best only a somewhat madequate recompense for a bad neglect on the part of the Iramers of the regulations. We have no particular

animos againetthese latter as even the Rer. Mr. Gardiner would seem to imply; it would be reasonable to note, however, that these gentlenes did make a mistake in regard to this particular subject, and that the abort-comings of the Pandit or the inadequacy of the old regulations is no justification for the error. As it is, verancelar composition is a compulsory course (taking in it the translation from a classical language) in the Intermediate. The compulsory principle is not therefore sought to be newly introduced. Two questions naturally arise out of this position—

- (i) Is this compulsory composition adequate for the purpose for which it was introduced? If not, can it be mended without altering the regulations too much?
- (ii) Would it be desirable to carry this into the B. A. Pass Course as well?

In regard to question (i) two facts stand ont clear. First the number of hours allotted to the vernaculars has been reduced to two, and the teaching, such as it is, is confined to composition as far as can be made out. Secondly, in spite of all that has been said about the Pundit and his woeful want of capacity it is the Pandit that is entrusted with the work in several Colleges. It was abundantly clear from the information collected by the Committee and the discussions in the Senate itself that there has, so far, been no attempt either on the part of the University itself or on the part of the colleges to improve the quality of the instruction imparted. What is wanted, therefore, is a certain amount of regular teaching of the language itself on the lines of the teaching of the mother-tongue in Prance with the supplement of special classes in composition. This need not be interpret-

ed as anything very revolutionary, and such a course can easily be arranged for without meddling with any vital part of the regulations and without the least detriment to the principles underlying the regulations as they are: To put it more clearly if the University prescribe a course as in the Non-detailed study section of the English course and let the Colleges be asked to make proper provision for the teaching of the subject on more approved lines, better results will follow and no violence would have been done to the tegulations so far as the Intermediate Course is concerned. There will be some difficulty in arranging the time-table and in apportioning the time among the several subjects of the course, but this is not in the least likely to be insurmountable There is of course the consideration that those that go to the Colleges enter their course there with a certain equipment in these languages, and this is matter for the School Final authorities. Education in this particular as in other particulars has suffered for want of a co-ordinating authority and the need for such is far greater in this country than elsewhere.

Coming to the next point, namely the desirability of carrying this compulsory course into the B. A. Paes Conree, it would seem very desirable to do so for the following reasons. The Pass B. A. is not meant to be a specialist. This latter has been studiedly released from the burden althe of these second languages as of Eoglish. If the nineteenth century Eoglish is enough for him perhaps the Intermediatovernacolar will equally suffice. The Pass B. A. stude entirely on a different footing. If he is really to be all that he is meant to be, it is reasonable to expect bin to possess a knowledge of the verifications.

culars at least as good as that he has in English To make provision in the course for this study with the other subjects left as they are would be a matter of considerable difficulty though a way out of it would seem quite possible with a little trouble to the Boards concerned For a Pass man, not a specialist, the course laid down in English seems much too elaborate It is hardly necessary to go into the full details of it here, but it would readily suggest itself to the English Board if they could only be persuaded to feel that some three to four hours a week will be required for the vernaculars The actual details of the course can be lla do rasio unicesal vicas tol beugatra reasonable criticism as to archaisms, Punditry and all else of that ilk The position of the vernaculars will not be improved by raising the percentage for a Pass or by the abolition of the classical languages as an alternative The vernaculars fared badly under the old regulations by bad courses, bad teaching to a certain extent, and by an arrangement of examinations which invited neglect on the part of the student. The correct principle has been recognized in the new regulations but has not been carried far enough to ensure the results which are expected The colleges have primarily to do this but surely the University ought to give them the lead

This is the position of those that are dissatisfied with the position of the Indian languages in the Madras University which by the way occupies a unique position in regard to these languages chiefly owing to the character of these languages themselves. It was open to the Commutee specially appointed for the purpose to have made the requisite research and made more satisfactory recommendations on the whole question

S Keishnaswami Aiyangar

SCHOOL MARKS OF THE S S L C

AT the recent Educational Conference held under the presidence. under the presidency of the Inspector of Schools, First Circle, at Vizagapatam, on the 13th, 14th and 15th of May, the problem of the school marks of the S S L C holder was one of the subjects brought up for discussion in a very incidental manner Mr Ivencar. P T, the Principal of Mrs A V N College. rose with the permission of the Inspector of Schools to propose a resolution on this question The educational world of this Presidency are aware of the circular letter issued by the Syndicate of the Madras University to all the Principals of the Colleges, on the principles to be adopted in selecting and admitting S S L C holders into the collegiste course of studies In that famous circular the Madras University Syndicate enunciated the principle of ignoring the school record of the certificate and of basing the selection on the marks awarded at the public examination The Principals of the affiliated Colleges were even threatened that any leniency shown in the selection might be considered to be a aufficient cause to consider why the affiliation of the college should not be cancelled Indeed the auggestions of the Syndicate fixed 40 % for English and a mark above the Presidency average for the optional subjects. In a word a very enthusiastic attempt was made to reducing the S S L. C to the Matriculation Certificate, for the University would grant such a Matriculation Certificate to all caudidates thus admitted! It should be mentioned

that the school marks were recommended for consideration more to diagnalify the student? Once more the evils of the rigid external examination were re-introduced with all the vigour they had enjoyed in the hands of the University for a long time.

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These suggestions of the Syndicate that came with the authority of rules were ignored and langued at in some hold quarters. In some cases the Principals resented that their discretionary nowers should be so harassed and questioned by the fossil Syndicate. But there were some Principals who, having been feeling the absence of such stereotyped ways of management for their guidance, welcomed them heartily and adopted them scrupulously. Last year in many colleges were witnessed the horrors of these suggestions. Students that were rejected by the Principal of their college could get admittance in the colleges of the neighbourhood. High school teachers began to put to themselves seriously the question why they should be conscientious in their marking. The spirit of the S. S. L. C. scheme was lost in two ways therefore, When these evils and horrors were discussed last year at the Teachers' Conference a resolution was passed. Mr. Iyengar brought up the same resolution this year also for acceptance by the Conference.

While last year the resolution was passed unanimously, this year the resolution was objected to by Mr. C. Govinda Reo, A., Lr., Haadmaster, Kota-Ramachaudrapur High School, Godweri, who had last year support oi it. He said that he had subsequently changed his position and that he would strong. Iy commend the action of the Syndicate. On principle he would denounce the action of the Syndicate but as a practical measure the

action of the Syndicate should be maintained. He meant that in the absence of such measures adopted by the Syndicate the unattached high schools (i.e., high schools unattached to any college) had to sustain a great risk. The Principals of colleges would place different standards of marks in admitting students reading in their own high schools and those of other high schools especially those in the neighbourhood. Such procedure on the part of the Principals led to the impoverishment of the unattached high schools. That such different treatment might be made impossible, the Syndicate was led to lay down those arbitrary rules; and he would welcome them therefore as showers of blessings for such high schools.

As Mr. C. Govinda Rao hesitated to say so much and so plainly when he objected to the proposition, he could not have one who seconded his objection. The resolution passed with one voice of dissent ran as follows:—That this Conference requests the S. S. L. C. Board to take such steps as to ensure the recognition of the school marks obtained by a S. S. L. C. holder who seeks admission either to the collegiate course or to the Government service.

The resolution is indeed very happy. The S. S. L. C. is in its infant stage and angurs a bright future, should it be worked on proper lines. The relee of the University in reducing the certificates to a mechanical standard is really deplorable. But yet the voice of the objector should be heard. As a headmaster of an unattached high school situated in the neighbourhood of a number of attached and mantached high schools competing with one another for finances, he has felt the wrongs done to his classes and

he has therefore objected. But yet the harassing rules of the Syndicate to ignore school marks cannot be accepted.

I therefore try to propose another scheme for acceptance A Board of six membersthree Inspectors of Schools and three Princi pals of private colleges-may be constituted to matriculate every year the S.S L C holders of all schools on the strength of the school marks valued in relation to the school average and the Presidency average and of the public examination marks and of any specific recommendations made by the headmaster of the school to which a candidate belongs As this Board cannot have any personal interests, their judgment should be final If a single Board for the whole Presidency be felt to be unwieldy, a small Board for each circle might be formed for this purpose The Board may consist of the Inspector of Schools who knows about the efficiency and honesty of the marks of each school in his circle and all the Principals of the colleges in his circle |The Inspector will receive the S S L. C books direct from the Board and he, in consultation with the Principals, may be empowered to pronounce who are eligible for being matriculated Such an arrangement, I hope, will suit the position under consideration

P JAGANYADHASWARI

GROWTH OF VERNACULAR LITERATURE IN THE MADRAS PRESIDENCY

IN the issue of the Educational Review for August 1912, there appeared an article from the pen of an emment educationist on the subject of the neglect of vernaculars in the schools and colleges of the Madras President

dency In the course of the article the writer attempted a diagnosis of the probable causes that had contributed to this neglect and to arrive at these he had recourse to a comparison of the conditions prevailing in Bombay, Bengal and Mysore in this respect He stated that in the Bombay University the vernaculars found no place at all in the University courses This is not a correct statement of fact for the vernaculars can be taken up for the M A degree and some of the eminent public men of this Presidency are Marathi or Gujarati M A's But let this be The writer continued that not withstand. ing this the vernscular literature was in a flourishing condition in this Presidency. Turning to Mysore, where, so far as the University examinations were concerned, the conditions were identical with those in Madras, the Kanarese literature was observed to be progressing by lesps and bounds was further remarked that if the Bengali literature had been very widely cultivated, it was not due to the fact that it had been a compulsory subject in the University examinations , for-it was argued-if it were so the vernacular literature should have been in an equally, if not more, flourishing condition in the Madras Presidency also, where vernaculars were being studied compulsorily till very recently. From these circumstances the writer concluded, and in our opinion rightly, that the prescription of vernaculars as compulsory subjects to be taught in schools and colleges had done nothing in the past and would do nothing in the future to stimulate the production of works in these languages and that the causes for this want of responsiveness on the part of the Madrasis must be sought for elsewhere than in the attitude of the Madras University towards the local

vernaculars. Finally the writer gave his opinion—and here we must remark that it is not a well-considered opinion as we shall show prescully—that the causes of this neglect are to be found in the character of the people of Madras themselves.

'A peculiar diagnosis' one is tempted to exclaim, a diagnosis that sammarily damas a whole people numbering from twenty to twenty-five millions at least. However in the further exposition of this new theory that is so startlingly nut forward the writer confined himself to a comparison of the supposed character of the people of Madras with the supposed character of the people of Bombay and completely ignored the examples of the other two provinces, viz. Mysore and Bengal. which had been brought in a little before along with Bombay for the purposes of this comparison. Is the omission due to the fact that the instances of Mysore and Bengal do not lend themselves so conveniently for the building up of the writer's newly-discovered theory? For apparently the character of the Mysorean cannot be so very different from that of his Madrasi neighbour, and as for Bengal, it need only be mentioned that the Bengalis were known to be the most subservient of all Indians in servile imitation of everything English including the use of the English language, till only the other day when the partition set them by the ears and drove them into the other extreme of bitter hatred.

With the greatest respect to the eminent writer of the article, it must be remarked that the theory propounded is untenable without further and more convincing arguments. From our experience it appears to as that the people of Madrea are neither the authority of the property of the pro

nor are the people of Bombay the patriolic and self-respecting paragons idealized in the mental regions of the fanciful writer. So for as the matter is capable of generalization at all the main causes of the neglect of vernaculars in Madras are more probably somewhat as follow.

(1) The modern Western civilization that has been brought into India by the British rulers introduced the Indians in the past and is introducing them at present to a large number of abstract ideas, modes of expression and even concrete articles of daily use for which there were and are no exact equivalents in the vernsculars. People were thus led to coin words and expressions for translating, these ideas into their daily language. In the Bombay Presidency the new requirements were coined from the Sanskrit languaage as the classical mother of all the modern Northern languages. In Madras, on the other hand, Tamil, the modern representative of. the original Dravidian tongue now lost, claimed a pride in its absolute purity from contact with the Aryan Sanskrit and the. consequent contamination, and Tamil authors even anterior to the advent of the British culture had already religiously forborne from seeking the help of the Sanskrit language in composing their works. The effect of this spirit of exclusion was that the knowledge of the Sanskrit language was confined to an extremely limited class of theologians only and the ordinary Madrasi never acquired the habit of expressing higher ideas and sentiments in a dignified classical garb. Thus, when as stated above the English culture was disseminated through the length and breadth of the Madras Presidency through the medium of the English language taught in the high schools and colleges, and the ques-

tion of assimilating this culture naturally arose, the Madrasi found that he had neither the habit nor the necessary material ready at hand for forging the new vehicles of ex pression for the inter communication of this culture As is the case everywhere in the world the daily spoken vernacular of the people was of no avail in this respect for the ideas and sentiments which were to be given expression to were all strange to that vernacular In circumstances such as these every modern spoken language has to fall back upon the root words of a dead language to coin the necessary expressions In Larope these languages are of course Latin and In India they are Sanskrit and Greek Persian and to a very slight extent Arabic But none of these languages were in the good graces of the Tamil scholar, nor were they studied by any large number of Madrasis Notwithstanding these drawbacks the amerit of the kinship of religion would have made the Tamilian turn for help to Sanskrit after all, as it was the language in which all the sacred Hinda literature had been written But here came in a difficulty arising from the proud spirit of exclusion of his forbears For this very spirit had been already taken advantage of by the Britishers, of course with the concurrence of the people themselves, to allow the substitution of vernaculars as second languages in place of the classical Sanskrit in the high schools, and the Madres University had followed suit The Senate of that body argued that as Sanskrit was a foreigner in Southern India and considered as such by the people, the college students could not be encouraged to take it up by a rule similar to that obtaining in the other Indian The local vernaculars were Universities accordingly freely permitted to be taken up

as second languages This attitude of the University further curtailed the number of students who had a knowledge of Sanskrit The results were disastrous to a surprising degree. For when the new ideas were to be conveyed to the vulgar multitude, the English educated Madrasi could not proceeate a new Tamil word based on a Sanskeit root on account of his ignorance of that langua On the other hand the English word itself could not be so naturalised for after all it was far more foreign to the vernacular than the Arvan Sanskrit word would have been A un media was found out of the difficulty The English word without any process of transformation was bodily accepted and freely used in the vernacular This process was attended with the least possible difficulty for Euglish was the compulsorily daily taught subject to the students and the daily medium used by the official classes in the office hours. and was moreover the very language which had acquainted the educated classes with the new idea. Is it surprising then that this wholesale use of Luglish words in vernacular speech became a regular habit with the educated classes and through them with the masses? One may be permitted to say that it would be surprising if it did not By this process however the vernacular of the English educated classes deviated further and further from its old pristine parity till it has now become a mere Anglo Vernacular mixture betraying at every step the exigencies under which it began to gain wider and wider currency It thus appears to us that the slow growth of the vernaculars in the Madras Pres dency is due largely to the neglect of the study of the Sanskrit language in schools and colleges

That this is the proximate cause will be

borne out by an examination of the kind and quality of the modern Marathi and Gniarati literatures that have grown in this Presidency. Firstly these literatures are confined to prose works, the amount of poetry put forth being altogether insignificant. Secondly, they are extremely 'modern ' in their ideas. Neither of these characteristics is surprising for the writers are mostly either men trained in the vernscular schools of the Presidency mentioned below or graduates of the Bombay University who had taken up the English and Sanskrit languages as their optional subjects for the B. A. degree. Thirdly a large number of the works consists of either translations or adaptations of the various standard English and a few Prench works, the major portion consisting of adaptations of works of romantic flotion. For instance Scott's Talisman has been adapted for the Marathi stage under the name of ' Prema-dhwais' or 'the banner of love.' Mrs. Henry Wood's popular novel ' East Lyone' has been adapted into an excellent Marathi Kadambari (novel) entitled ' Manik Bag.' Shakespeare has appeared to Marathi prose, and some of his plays, especially 'Hamlet' and 'Othello' have been adapted for the stage as well. We must at the same time add that in respect of romance, there are some very good original works also, as for example, ' Ajım Tara url or Ajinkya Tara, ' a thrilling story of the capture of the fort of Satara by the Mahrattas, a masterpiece of its kind by the most famous living Marathi author Mr. Hari Narayan Apte, who is invariably an examiner in Marsthi for the M.A. degree examination of the Bumbay Univereitv.

Lastly the most important characteristic of this literature with which we are concerned bero is that the style in which all these works are written is an extremely dignified classical 'backboned' form of Marathi teening with Sankriti words and compounds. As examples of some of the very ordinary terms met with it may be noted that 'literator' is translated into 'VAngmays,' stage' into 'Hangabhumi' 'high ideals' into Udata kalpana,' modern' into 'dabanis,' mestern' into 'pakabimatys,' 'editor' into 'sampdakas,' and isstly 'self-government' into 'sampdakas,' and isstly 'self-government' into 'sampdakas,' and isstly 'self-government' into 'sampdakas,' and

Turning now to Bengal we confess that we have no first-hand knowledge of the Bengali literature but we are assort from several quarters that whatever has been said above regarding the Marathi and Gojarni literatures applies even more forcibly in the case of the Bengali literature. This is not surprising; for it seems that many of the modern writers in Bengali are the alumni of the Sankrii College of Calentia, which the Hon'ble Sir Asutosh Mukerjee, the learned Vice-Chancellor of the Calentia University suggested only the other day as the brilliari modern of an Oriental University.

Marathi, Gojarati and Bengali are Aryan languages and some of our readers may argue that this wholesale borrowing of Sanskrit words and compounds though quite compatible with these Prakrit languages is probably out of place in a Dravidian tongue. This is essentially a question of fact and to some extent of habit. We have a complete knowledge of one Dravidian language, cit, Kanarese and so far as that language is concerned we can assure our readers that such borrowing is not at all incompatible with the language. Neither does it mar its beauty. On the other hand it has added in the past very considerably to splendour of language and the poet Lakshmisha (Circa 1590 A.D.)

the author of 'Jamuni Bharata' and the first and foremost of modern Kanarese anthors has freely used a large number of easy Sanskrit words and compounds The two processes by which Sanslrit words are borrowed in the Kanarese language are (1) the 'tatsama process, se borrowing the word bodily, and (2) the 'tadbhava' process in which the word is changed according to definite rules corre sponding somewhat to Grimm's and Verner's laws for deriving Auglo Saxon words from Low German. So far as we are aware we do not see why similar processes cannot be adopt ed on an extensive scale in the case of Tamil. when they are used in Kanarese, as both Tamil and Kanarese are derived from the same original Deavidian tongue In fact the 'tadbhava ' process is apparently already in use in Tamil as for example the Sanskrit 'Shri' transformed into the Tamil 'Tiru' In fine we cannot do anything better than exhort the Madrasis to shake off the proud spirit of exclusion which possessed some of their fore fathers and still continues to haupt them and to clasp with fervour the ready helping hand held out by the Sanskrit language with its vast store house of root words and derivative processes.

(2) The second cause of the neglect in question was the failure of the Madras Government to provide proper facilities for the higher study of the vernuculars. We do not say that this attitude was intentional or deliberate on the other hand we are simust quite aire if at it arcse from ignorance of the true method of encouragement of the vernaculars. For years together the highest vernacular teaching provided in the public schools of the Presidency was only up to the upper primary stage, so the fourth verna cular standard. After that stage the verna

cular was relegated to a subordinate position the English language taking its place as a medium of instruction. It is only in the last few years that provision has been made in some places for the use of vernaculars as media of instruction to a higher stage by the establishment of vernacular middle schools In the Bombay Presidency on the other hand, the resources of the Local Boards supplemented by larger and larger annual grants from Government have been for several years last past employed in imparting vernacular education to a fairly advanced stage. The vernacular school course in this Presidency extends over a minimum period of 8 years including the infant class and at its completion comes the Vernacular Final Examination corresponding to the School Final Examination of the English Secondary School though some subjects at the latter are omitted from the former The stage reached at this examination in the command of the vernacular is fairly high and a candidate is generally able with a little experience to contribute a good article to a vernscular paper on any modern literary tonic of general interest to the public. We doubt whether the same could be said of any pupil turned out from any institution in the Madras Presidency In the case of school masters, this command of the vernaculars is further improved by the three years' vernacular training college conise in which they are also taught the Sanskrit language in order to accustom themselves to the cultivation of a fairly dignified classical style in the vernacular when the nature of the subject dealt with so demands In fact some of the schoolmasters who were so trained but have been subsequently dissatisfied with the conditions of service in the Educational Department are

now editors, sub-editors and assistant editors of vernacolar nawapapers or monthly magazines baving a fairly wide circulation or in some cases have become their regularly paid correspondents. We doubt whether there is empthing parallel to these activities in the Madras Presidency. We know that a few years ago there was nothing. We doubt whether matters have improved since.

(3) The third probable cause is the want of Government encouragement and support to those who have taken up the advanced astudy of vernaculars and written good works in those languages. In this connection it may be remarked that in this Presidency the cadro of vernacular masters is divided into grades carrying salaries from Rs. 12 to Rs. 60 per month and regulated by a time scale of promotion. These masters are also eligible for appointment as Assistant Deputy Educational Inspectors corresponding to the class of Sub-Assistant Inspectors in the Madras Presidency. As regards graduates it may be stated that the majority of the staff of the -four training colleges at Dharwar, Poons. : Abmedabad and Hyderabad and of the train--ing school at Dhulia consists of graduates whose optional subject for the BA, degree - was 'languages' (i.e. English and Sanskrit in this case) and who have cultivated the net of writing and speaking in the vernacular. -They are further encouraged to sustained ceffort in the advancement of the vernsculars by certain of their official duties. For instance the Vice-Principals, who are of course members of the divisional vernacular text book committees, are the departmental reporters on all vernacular publications sauc-.tioned by Government for use as text-books or as prize or library books in schools and colleges as also on all vernacular publications

submitted to Government for patronage. They are thus required to be up to date in the knowledge of the development of the vernscular literatures. They generally draw a salary of Rs. 200 per mensem. The Principals of these colleges are in the Provincial Educational Service and draw Rs. 400 per mensem. Again in each of the four divisions the Educational Department publishes a vernacular 'Shall Patra' or journal of education for schools and the editor of this magazine who is paid a special remuneration for the work is selected invariably from the staff of the divisional training college. The encouragement thus given to the cultivation of the vernaculars is invaluable.

In this connection we may mention another circumstance of some importance. It is this that in all the public offices of this Presidency, there are what are called vernacular departments, the clerks in which are vernacular schoolmen baying no knowledge of English These clerks, it is known, make up a respectable body of vernacular newspaper and magazine readers. They are thus a fairly potent factor in the development of vernacular literature. Further there is an acqual Government grant for giving rewards to approved writers in the vernaculars, & committee, viz. the Dakehina Prize Fand Committee, being constituted to judge the award. This is a relic from the times of the Peshwas as the word 'Dakshina' indicates. Government also encourage such works from the ordinary budget grant for the encourage ment of literature. Of the special importance given by the Bombay Government to the stady of the vernsculars by the Civilians of this Presidency anybody who watched the proceedings of the Decentralization Commission must be well aware, as also of the neglect of the same in Madras We need not add anything here (4) A fourth reason for the neglect of

vernsculars, which is closely allied to the first reason we have given above was the non provision of facilities by the Madras University for the advanced study of Sanskrit The study of Sanskrit as a com pulsory second language is useful so far as it goes, as for matance in creating a chentele of cultured readers for superior vernacular magazines But it can never produce the same effect as would be produced by the study of the language as a special subject, which can only be done when it forms part of an optional group Compulsion in the sphere of the intellect can never, it must be remembered, be attended with any conspicuous degree of success It is the love of a subject for its own sake that is capable of working wonders and such love can invari ably be best indicated only by the choice of the subject when it is one of several optionals Mereover the study of a subject voluntarily (and hence specially) is always attended with greater and more rapid advance than if it were studied compulsorily Turning to the Madras University, under the old regulations, there was no optional group of languages as in the case of Bombay This defect has however been removed in the new regulations under which one may take un a combination of say Sanskrit and Tamil or Sanskrit and Kanarese and so on This is an improvement in the right direction the facilities thus provided will be of no avail unless the Madras Government gives at least equal opportunities in the public services. especially the educational services, to graduates in these subjects. We think that each secondary school should be required to have at least one such graduate on its staff just as it is required to have a mathematics, history or science graduate. In the case of the inspecting staff and the staff of vernacular training colleges a large majority of future recruits must belong to this class, and this class only It is because these principles are followed in this Presidency that the verna-

cular literatures are in a flourishing condition In concluding the article we may be permitted to hope that the causes set forth in it will be more acceptable to educationists in the Madras Presidency masmuch as we expect that they will be borne out by the actual conditions prevailing in that Presidency. which can be observed in detail only by those who are actually on the spot and are in close touch with the system of vernacular education in force there

" DARREER"

THE NELLORE RANGE VACA. TION CLASSES

(BY AN EDUCATIONIST)

THE Nellore Range Vacation Classes were held on the 29th, 30th and Sist May. 1913, in the Government Training School, Nellore and they were a great success. About 65 teachers attended the classes Model lessons on different subjects were given on all the important subjects. An exhibition was also arranged on a small scale and the teachers were shown the different charts, pictures and apparatus brought together for the occasion. The significance and the educational usefulness of each article was explained Every attempt was made to make the exhibition instructive Every teacher was compelled to take notes for his future guidance The exhibits were arranged In three different rooms. The geographical pictures lent for the occasion by the V. R. High School authorities were beautiful and instructive. 'Volcanic eruption,' 'A Chinese town, 'A Japanese town' and 'New York' were very attractive. The bistorical pictures were coloured and were in glass frames. The coloured Bacon's charts were much admired. 'The landseer' series of natural history plates were also on view. Some drawings of the pupils of the Olcott Free Schools and some exhibits from American Schools obtained for the Nellore Exhibition were also to be seen there. The museum articles of the Municipal Muhammadan School, Nellore, were much admired by all the visitors. The A. L. Phisiology charts, Philip's Typical object lesson pictures and picture map of the world were clearly explained to the assembled teachers. The anatomical models of the Government Training School were also there. Many of the teachers copied down the information. contained in the physical geographical charts prepared by Mr. K. Rangaiya of Kover. The fibre work from the Board Schools at Kristpapatam and Brahmadevam deserves special mention. Different kinds of wood. pressed leaves of different kinds and some good clay models and stone work belonging to Mr. M. Subrahmanyam, E.A., L.T., were also exhibited. The life-histories of the frog, the bee and the silk-worm belonging to the Municipal Panchama School were eagerly sought for by the teacher-visitors. Besides the stuffed specimens of snakes and birds, there were living specimens of pigeons, parrots, land and water-tortoises-pet animals from the Municipal Muhammadan School. Moral maxims in coloured type on card boards and a chart of good manners prepared for the occasion showed that the subject of moral instruction

was not neglected. Many stones were there though they required classification. There were also different kinds of shells. The solocard drawings of papils of the A. B. M. High School, Nellore, were excellent and the nail drawings of one of the Elementary school teachers were equally good. Oar and Co.'s practical object lesson cards were also on view as well as Bacon's free arm and ambideztrons drawing charts and Nature drawing charts and Nature drawing charts and Nature drawing charts by Blackie & Sons.

In the evenings M. R. Ry. M. Sabrahmanyam Garo, B.A., L.T., Sub-Assistant Inspector of Schools, Nellore Range, explained in a practical mapper the modern methods of teaching the subjects of the Elementary school curriculum. To facilitate work he printed at his own cost a synopsis of his suggestions and distributed them gratis among the assembled teachers. On one evening M.R.Ry. M. Rangaswami Iyengar, the Assistant Inspector of Schools, Nellore District, brought home to the teachers' minds the method of teaching the lesson on 'The Cow' in the first reader. A public meeting was held on the Sist May at 5 p.m. with Rao Bahadur T. Raghaviah Garu, B.A., Collector of Nellore, in the chair. M.R.Ry. R. Subbarayadu Garo, B.s., B I., delivered an interest--ing lecture on " Moral Training and Elementary School Teachers," and M.R.Ry. G. Yenadi Reddi Garu read an instructive paper on 'Andbra Mahabharatam.' Both of them remarked that the readers in use in Elementary schools were not quite good. A few verses composed by one of the teachers were then read in honour of the Chairman. A few remarks from the chair, the usual votes of thanks and the singing of the National Authem in Teluga and in English brought the vacation classes to a close.

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GOVERNMENT COLLEGE OF COMMERCE, BOMBAY

No 1579 -The following Press Note No 1578, dated 24th June 1912, is published for general

information ---

Press Note

His Excellency the Governor has received the following very generous promises of support to wards the establishment of a Government College of Commerce in Bombay -

- Vurjeevandas-Re (1) Sir Jugmobandas 2 25,000 towards the founding of a professorial chair to hear his name
- (2) The Trustees of the Wadia Charities-Port Trust bonds yielding Rs 4,800 per annum towards the founding of a chair to bear the name of Mr N M Wadis
 - (3) Sir Chinubhai Madhavlal-Re. 1 00 000
 - (4) The Bombay Chamber of Commerce-Rs 1,500 per sanum
 - (5) The Mill owners' Association, Bombay.
 - (6) The Indian Merchants' Chamber and Bureau.
 - Bombay. (7) The Bombay Native Piece goods Merchants' Associa-
 - (8) The Mill owners' Associa
 - tion, Ahmedabad

The income thus provided will amount to about Rs 23 000 per annum, and Government are prepared to contribute an annual grant of Rs. 15,000 The liberal and most gratifying support which the proposed College has thus received will enable at to be established, although ad ditional funds will be required to make the instatution complete in all respects and to provide scholarships Details will now be worked out, and it is hoped that a beginning may be made next year with a staff of two professors (one to act as Principal) and two lecturers. As soon as the pecessary arrangements have been made, an Advisory Board will be formed on which the contributing bodies will be represented in order that the courses of study may be kept in full harmony with the practical requirements of commerce and industry. The Governor in Constell irusis that the establishment of this College, the first of its kind in this country, will in time go far to supply the growing needs of special commercial education not only of the Presidency, but of India generally,

By order of His Excellency the Honourable the Governor on Council. J L RIEU.

Secretary to Government. Educational Dept

No 1404 - The following Press Note No 1393, dated 12th May 1913, 18 unblished for general information:-

Press Note

In Press Note No 1578, dated the 24th June 1912 it was announced that Government had received satisfactory promises of financial support towards the establishment of a College of Commerce in Bombay and that the details of a Rs 1,000 scheme would be worked on! Accordingly in July 1912, definite proposals were made to the Government of India for the foundation of the proposed College and they were saked to obtain the aspection of the Secretary of State to the creation of two professorships to be recruited in England

9 The Secretary of State has approved the proposals submitted by the Bombay Government as heigg a practical scheme well calculated to meet the demand which may be expected to make stand felt in India for the services of trained actuaries and auditors more especially in view of the recent legislation controlling L fe Assurance Companies and Provident Societies His Lordship has accordingly approved the proposals panerally and has sanctioned the two professorships to be recruited in England

3. The teaching staff which it is proposed to engage for the College at its commencement is as follows:—

Principal on £900 per annum of Rs. 1,125 per mensem.

Professor on £700 per annum or Rs. 875 per mensem.

Two lecturers on Rs. 300-25-500 per mensem each.

The two professors will be recruited in England for a specific term of service, and the two loctoreships will be held by qualified Indians. The Secretary of State has now been requested to select a suitable candidate for the poet of Principal who will join his appointment as soon as possible, so that his advice may be obtained in settling important details in connection with the opening of the College. The Lord Sydenham has kindly offered to assist, in England, in the selection of a candidate.

- selection of a conditate.

 4. The College will be entirely under Government control, but, in order that the courses of study may be kept in full harmony with the practical requirements of commerce and industry, the Governor in Council proposes to appoint an Advisory Bond in connection with the institution. This Bond will for the present consist of the numbermentioned thirteen members representing respectively Government, the private donate, and the commercial bodies which have promised to contribute bowards the cost of the College.
 - (1) The Director of Public Instruction, Chairman of the Soard.
 - Chairman of the Board.
 - (2) The Principal of the College.
 - (3) The second professor of the College.

 (4) A representative nominated by Sir
 - Jugmohardas Vorjesvandas.

 (5) A representative nominated by the
 - Trustees of the Wadia Charities.
 - (6) A representative nominated by Sir Chinabhai Madhavlal, Bart, c.t.z.

- (7) & (8) Two representatives nominated by the Bombay Chamber of Commerce.
- A representative nominated by the Mill-owners' Association, Bombay.
- (10) A representative nominated by the Indian Merchants' Chamber and Barean.
- (11) A representative nominated by the Bombay Native Piece-goods Merchants' Association.
- (12) A representative nominated by the Mill-owners Association, Ahmedahad.
- (13) Sir James Begbie, Secretary and Treasurer of the Bank of Bombay.
- 5. The College will be affiliated to the University of Bombay, which has instituted a new degree of Bachelor of Commerce and framed
- a scheme of studies in connexion therewith.

 6. In communicating his spacific to the scheme the Secretary of State has stated that he notes with pleasure the liberal support which has been promised towards the endowment of the College of Chamerees on behalf both of private individuals and of commercial hodies.

By order of His Excellency the Right
Honourable the Governor in Council,

J. L. RIEU, Secretary to Government, Educational Dept.

University of Bombay.

Regulations for the Degree of Bachelor of Commerce.

Bachelor of Commerce.

 Candidates for the Degree of Bacholoff Commerce (B. Com.) must have passed the Matriculation Examination, and will be required to pass two subsequent Examinations, the first to be called the Intermediate Examination Commerce, and the second the Examination for the Degree of Bachelor of Commerce.

INTERNEDIATE EXAMINATION IN COMMERCE

- 2. The Intermediate Examination in Commerce will be held annually in Bombay in the first week of September.
- 3 No under graduate will be admitted to this Examination unless, after obtaining a certificate from the Principal of an Arts College stillated to this University, showing that he has satis factorily carried out the work appointed by the University for the first two terms in Arts or else after passing the Previous Examination of this University or the Intermediate Extension in Arts of any other Indian University, he shall have kept three terms at a College or Institution encognized by this University in Commerce and unless he produces satisfactory testimonials under Evern 1
- 4 Candidates must forward an application to the Registrar two weeks before the commence ment of the Examination
- 5 Each candidate must pay to the Regis trar, through the Principal of his College or otherwise, as the Syndicate may direct, a fee of Re 25.
- 6. To pass the Examination the cand date must obtain (a) 45 per cent of the full marks in Mercantile Law and Practice, (b) 45 per cent of the full marks in Accountancy, and (c) 33 per cent, of the full marks in each of the two remaining subjects Those of the successful candidates who obtain 65 per cent of the total marks obtainable will be placed in the First Division,
- 7 Candidates for the Intermediate Examina tion to Commerce will be examined in the follow ling subjects:—
 - (1) English
 - (11) Political Economy.
- (111) Mercant le Law and Practice
- (IV) Accountancy.

- Examination for the Degree of Bachelor
- OF COMMERCE (B Com)

 8 The Examination for the Degree of
- Bachelor of Commerce will be held annually in Bombay in the first week of September
- 9 No candidate will be admitted to this Examination caless after passing the Interme date Examination in Commerce at this University he shall have kept art terms at a College or Institution, recognized by this University in Commerce and unless he produces estisfactory testimonals under Form 2
- 10 Candidates must forward an application to the Registrar two weeks before the commence ment of the Examination.
- II Each candidate must pay to the Registrar through the Principal of his College or otherwise as the Syndicate may direct a fee of Re 50
- 12 To pass the examination the candidate must obtain (a) 45 per cent of the full marks in must be fail marks in the Voluntary Subject, and (c) 23 per cent of the full marks in each of the full marks in each of the four remaining subjects. Those of the success fal candidates who obtain 66 per cent of the total carks obtainable will be placed in the First Division.
- 13 Candidates for the Degree of Bachelor of Commerce will be examined in the following sphiects --
 - (1) Engl sh
 - (n) Economic History
 - (111) Economic Geography
 - (17) Banking Law and Practice.
 - (v) Organisation of Industry and Commerce. (vi) One of the following Voluntary Subjects 1-
 - (vi) One of the following Voluntary Subjects:--(a) Exchanges Investment and Currency
 - (b) Accountancy and Auditing
- (c) Actuarial Science with Relative Mathe-

to formulate a complete policy of improvement and artension which can be promulgated for the guidance of all who devote or are interested in development of primary education in this province.

5. The Government of India in paragraph 11 of their resolution of the 21st February 1913, laid down a number of general priociples in regard to primary education. These may be taken as the basis of the constructive work which is now in contemplation : but, as the Government of India anticipated, they may have to be modified in some respects to suit the local conditions of the province, and they will further require to be supplemented in numerous points of detail. To this end, as also to obtain competent advice in framing the comprehensive policy above referred to, the Local Government is desirous of securing the assistance of a strong representative committee which shall include administrative officers, educational experis, and non-officials who are specially interested in education. Such a committee will accordingly meet at Naini Tal early in June. under the presidency of Mr. T. C. Piggot, I. C. S. Judicial Commissioner of Oudb. In addition to this general committee it is hoped to have subcommittees or small separate committees at work upon certain special sections of the question. The result of their labours will be communicated to the main committee which will incorporate them with suitable recommendations in its general report. There is no desire on the part of the local Government to restrict the committee's suquiry to specified topics or by definite limitations. At the same time there are certain main branches of the subject on which recommendations are specially invited. These are :-

- I.—Improvement of teachers.
 II.—Suitability of the carriculum.
- III. Education for special classes,

 IV. Nature of the school buildings.
- · V.—Encouragement of sided and indigenous schools.

VI.—Encouragement of girls' schools.
VII.—Machinery of inspection and control.

After due examination of these subjects the committee will be in a position to advise Corer-ment as to the most profitable employment of the available resources in the different parts of the province.

- 6. The following general observations on each of these seven topics may assist the committee in develoning their enquiry:
- I. Teachers.-The rules on pages 67 and 68 (chapter III) and 261 to 270 (chapter VI) of the District Board's Manual and pages 119 to 124 volume I of the Municipal Manual deal among other matters with the qualifications, pay and training of teachers in secondary and upper and lower primary schools. These rules read with rule 253 of the Educational Code show that primary schools depend largely on middle vernacular schools and normal schools for their better qualified teachers. This connection between the two branches draws into the scope of enquiry, the general scheme of vernacular middle education including normal schools. One of the main problems before Government is the extension of the supply, and the improvement of the quality of primary teachers. Various suggestions have been made. Of these the most obvious is the offer of better pay and inducements, a matter on which the views of the committee are invited, due regard being had to the limited sources likely to be available. Further points for consideration are whether the grant of superior pay and inducements will justify an insistence on higher qualifications; and if so, how facilities are to be provided for attaining such qualifications. The following suggestions which have been put forward are commended to the committee's considers-
- (i) to augment the pay of teachers in middle vernacular schools, and so to secure a higher class:

tion ---

(ii) to raise the standard for the vernacular

final examination and possibly to extend the course of study for it,

(111) to encourage selected candidates to study for an extra year by the promise of admission to a normal school, and of scholarships of necessary

a normal school, and of acholarships if necessary A further aggression which more particularly affects lower primary schools is to increase the stipends in training classes

7. II Curriculum -(1) In considering the scheme of instruction the dominant issue is the durability and value of its influence on the mind of the pupil There is a volume of evidence before Covernment that the child who finishes his schooling at the lower prin ary stage has acquir ed little that is useful to him, and is very unlike ly to remember what he has been taught It is for the serious consideration of the committee whether this is correct representation of the facts If it is, then it is an inevitable deduction that the time, money, and endeavour expended on the education of children who do not narsus their studies to the upper primary stage are wasted, and they are harassed without receiving any compensating benefits, while, the fruitless ness of the results tends to raise a hostility to our educational system in the minds of the parents It will be for the committee, if it accepts this view, to seek for effective remedies The mere grouping of lower primary schools round upper primary schools may not suffice and more direct action may appear advisable in the way of gradually raising the former to the status of the latter, and of linking the two sections more closely together It may even be found desirable that the particular plans for the encouragement of education which take the form of the reduction or remission of fees can be more appropriately directed at the upper rather than the lower sections of primary schools. The whole question is one of the deepest importance requiring the carnest consideration of the com mittee

of study involve two main questions. The first is whether they should be identical in rural and urban schools, the second refers to their scope. The opinion of the Government of India, which is supported by a strong body of authority. is in favour of answering the first question in the affirmative There may however be room for minor variations either generally or in particular parts of the province Instruction in the rent and revenue law should at once be rejected, and the value of quasi practical lessons in agriculture is negligible, but there is a considerable feeling in rural tracts in favour of making children familiar with the village map and papers A. regards the scope of the curriculum there are two schools of authority One would confine primary education to the teaching of reading, writing, and arithmetic sufficiently to enable pupils to read and write letters, keep simple accounts, follow a newspaper, and understand the patwaria records. The other would extend the course and train the children in habits of observation and analysis in the hope of strengthening their general intelligence and improving their chances of success in their ordinary avocations. With this object such subjects as drawing, manual instruction, object lessons and majore studies are treated as important ingredients in the curriculum In considering the comparative advantages of the two systems of education, the committee will no doubt have due regard to the wishes of parents. the short time available for the whole course of primary instruction, and the capabilities of the teachers available now, or likely to be available for some years, for imparting in an intelligent and interesting manner anything beyond the range of the three Re

(iii) Another issue of grave moment is the possibility of special morel or religious teaching in primary schools. Here again the attitude of paronts is a factor of high consequence,

(17) Finally the propriety of physical training on European or indigenous lines might be consi-

(ii) The question of the text books and courses

dered in connection with this branch of the subject, together with the necessity for introducing a simple course of lessons in hygiens.

- Education for Special Classes .- The · 8. III. problems connected with this branch of the question are akin to some of those alinded to under head II (ii) It has to be recognized that our elementary schools cater for two classes of popils. For one class their teaching is the basis on which higher aducation will subsequently be built up. As a mental equipment its gaps can be subsequently repaired; and its main foundation is to prepare the child's mind for the easier assimilation of more advanced knowledge. With the second class of pupils, the requirements are different. The primary school course is the sum total of his systematic education; he leaves it to follow his trade or calling. The teaching therefore which he should receive ought to be Relf-contained, complete in its degree and as durable as possible; for no subsequent opportunity will occur of correcting or supplementing it. It is thus a serious question whether an attempt abould be made to differentiate the course for those two classes of scholars. Is it proper and practicable to have separate classes or schools for the sons of agriculturists and artisans, or for boys cenerally whose castes and occupations do not indicate the probability of their going on to secondary schools ? If so, what two of special curriculum should be prescribed? Auother phase of the same question is the provision of teaching for the lower castes, generically known as Sudras. From certain recent statistics it appears that out of nearly six million Chamara in the province only 1,063 go to school; out of 370,000 Kisans only 576; out of 990,000 Koris only 861; and out of \$50,000 Bhangis only 5. The problem of altering this deplorable state of affairs is fall of difficulties; but in solving them the Government is confident of special assistance from the growing feeling among the educated Hinda community in favour of elevating the condition of the 'uniouchable.'
- 9. IV. Buildings-(i) It is frequently suggested that the expansion of primary education is being retarded by a too rigid insistence on school bouses of a comparatively expensive character. The Committee should therefore examine the standard plans prepared under the auspices of the Department of Education with a view to any practical simplification or cheapening which will not involve beavy recurring ontlay on repairs. It should also be considered whether the plans are equally suitable for all parts of the province, or whether different styles would be appropriate in different divisions. And the Committee may find itself able to advise on the feasibility, during the earlier years of a school's existence, of hiring or securing on nominal terms, a building for it from the ramindar or co-sharers of the village.
 - (ii) In connection with the question of building, the Committee's attention is directed to the possibility of devising some means of testing the stability of new primary schools. Experience has shown that schools often come into existence owing to fortuitous circumstances and not in response to any genuine demand for education. The real of a district officer or the need of a local person of influence, sometimes supply & temporary stimulus for creation of a school, which ceases to exist as soon as the stimulus is withdrawn. In such cases the money, if any spent on the buildings is lost. It is therefore a matter for consideration whether in the case of schools which cannot stand a responsible test of stability, a guarantee should not be demanded for the provision of suitable school accommodation for a defined period, as a condition precedent to the opening of a new school.
 - "(iii) Play-grounds and their equipment are closely allied subject. Suggestions are invited from the committee as to what they consider advisable regard being had to other claims on the funds available. The smobllishment of school buildings with nest and attractive garden plots is also a suggestion of interesting in also a suggestion of interest.

V. Aided and Indiagnous Schools - The sloudne anonequing for hebre to enous bus atters on which the Local Government will the matured opinion of the Committee s bave been expressed as to the value of acation they impart, and the role assigned em in the Government of India's recept tion is a strictly limited one. On the hand, the Local Government while fully ng that no countenance should be given to ire' schools, is impressed with the belief here may be private schools which meet a ne local demand, and that special sectarian is such as maktabe and pathshalas frequent vey, or could by a Grant in Aid be induced nvey, a moderately good education com le with the instruction in the unper primary as of District Board schools If this view ends steelf to the committee, it would be o undertake an examination of the Grant d rules in the District Board Manual and to w them as regards the adequacy of grants, meral conditions unposed, and the degree of ol marated on.

VI Girls' Schools -This is a subject in the problems, while parallel to those already ed to in connection with boys' schools pre special difficulties of their own. The need mprovement and expansion is particularly ing The statistics published by the Gov ent of India, to which allusion has been dy made, show that in this province the ntage of girls in primary schools to the total le ropulation of school going age 'is only per cent, while in the Publish, and the ral Provinces, in which the proportion is lowest, the percentages are 22 per cent and or c nt respectively Signs are not wanting public interest has been aroused, but so far practical work has been done except by the amed effort of individual enthusiasts In a circumstances it is advisable that Govern t while not shrinking from its responsibilities compting female education, and not hesitating

to take the instinctive in areas where development would be otherwise indefinitely postnoned, should follow and aid private enterprise, rather than embark on delicate experiments with the risk of rupuing counter to presudices the extent and strength of which it is difficult to cance. The advancement of female education, earnot be on a nniely statustical basis and the Committee's recommendations are invited as to the heat means of securing it by encouraging and assisting the opening and maintenance of private schools under reliable management. In regard to Board's schools at should be considered to what extent small girls can without objection be taught in the same school as boys The Committee should also advise what, if any, modificatous of the primary curriculum are necessary for g rls schools and whether special text books, and reduced hours of study should be prescribed for them

Finally there remains the thoray problem of the supply of teachers. This is a source of growing anarely and difficulty, and any suggest tion for solving it will receive sympathetic conaderation. It is hoped that the committee will be assisted in this part of its labours by the conclusions of a separate conference of ladies and gentlemen who have practical experience in the matter of female selection.

12 VII. Inspection and Control. - With the official anspecting staff, the policy of Government has been to associate non-official school commattees whose functions are laid down in the District Board Manual. The manner in which these functions are expressed, and the means by which the interest and co operation of the people may be enlisted on behalf of primary schools are matters on which the Committee's opinion and proposals will be welcome The officials brought into immediate contact with primary schools are as a rule the Sub Deputy Inspectors The savice of the Committee is requested on a proposal to increase their number, so that there may be on the average one per Tabeil, as well as on a proposal to appoint a separate Sub Deputy Inspector for the schools in each of the larger municipalities As regards Inspectors the Local Government will be glad of the Committee's views as to the

advisability and necessity of appointing a certain EDUCATION IN THE MAGAZINES. number of additional Inspectors, possibly one for each of larger divisions, due regard being paid to the anticipated growth of primary schools, the assistance with the Boards will expect from the Education Department and the prime importance of the most economical use of public funds in a campaign of this magnitude. The question of improving the pay of the inspectorate in all its prades is before Government at present, but any auggestion which the Committee may wish to offer will receive the most careful attention.

13. Finally the Committee is invited to review and report on the necessity of the revision of the regulations for primary education as promulgated in the extant orders in the District Board and Municipal Manual and the Educational Code.

14. Having reviewed the whole field of primary education, the Committee may find itself in a position to formulate some general principles for the distribution among the various divisions. or even districts of the province of the funds. which it is expected will be available for the development of primary education within the next quinquennium. The selection of the areas in which new schools will be opened, or of the private schools to which aid will be given, is essentially a matter which each District Board must determine for itself. But, if consistent and general progress is to be made the grants of public money must not follow the idiosyncracies of individual Boards or district officers: they must be used as a lever for securing moderate uniformity in the advance. It may consequently be possible to make a tentative allocation of our resources by areas, and thereby to indicate the ideal at which each area should aim. The factors for this calculation, empirical though it must largely be, are the existing standards of literacy in the ares, the school-going population of the cases which welcome education, the present supply of schools, and the share which the area may reasonably be expected to fake in supplying the 300,000 children whom it is hoped to secure as a minimum addition to the number of the primary scholars in the province,

(INDIAN).

Education in Japan.

The Shogons who had held sway in Japan for a period of about six hundred years were opposed to popular education under the mistaken notion that the spread of education might weaken their hold on the country and deprive them of the ruling powers. But with the accession of Mutsuhito, father of the present Mikado, national education became a question of paramount importance on which both Government and people bestowed the greatest attention and care. While the former began by starting model schools in every town and making education compulsory by legislation, the people followed the lead and founded schools in villages and bamlets to meet local requirements. In this way within a comparatively short space of time every village of Japan had arrangements made for education on national lines. But the Japanese were not contented with this; They set themselves to find out the best methods of imparting instruction to their boys and after years of discussion and experiment, kindergarten was accepted as the best system, and introduced in all the schools of Japan. Good care was also taken in the selection of text-books, and those that are now in use in elementary schools are written in easy and elegant language and contain beautiful and instructive stories, most of which are socodotes taken from the lives of distinguished patriots and national heroes. Guardians and parents render the boys every assistance in going through and understanding these stories and stimulate their interest and curiosity by the manner of their telling them. Games and entertainments form a special feature of Japanese schools. In every one of them music holds an important place, and it is a charming sight to see boye in uniforms coming out of the schools in files at the close of school hours singing songs in sonorous strains. Whenever two or three boys meet they fall to a tune and are joined by other boys in the streets. There are again excursion parties in which both teachers and boys go out for long walks. On such occasions the boys are to inure themselves to all sorts of bodily hardship and soffering. One day a large field filled with mud and mire is to be crossed in the midst of rain and storm, another day it is a high peak of a mountain which is to be ascended after miles of tiresome journey in scorching sunuy weather. It is a common sight to see Japanese children being thrown into the sea or the river with \$

to teach them the art of swimming limes also they are divided into parties and in tournament in the course of which they iven practical lessons in all the tactics of l warfare A boy guilty of an offence is not any corporal punishment nor even spoken ship or with words of rebuke, a few words vice followed by detention after closing deemed sufficient pun shment and adequate ctive for all paltry offences. If a boy be n by a school fellow, he has no redress to only reprimand to meet, for an unavenging te in this matter denotes not only cowardice also loss of family prestige and honour Japanese language consists of more than characters Japanese children have no pens use brushes instead The facility with h they handle the latter well prepares them be arts of drawing and painting in which Japanese boy is more or less proficient -Leader

Growth of Education

lecture on the "Growth of Society and atton" was delivered by Mr D P Thakore, e Pacharyappa's Hall when the Hon Mr ice P R Sundara Aivar presided The wing is an abstract taken from the lecture --Education is as the etymology of the word tes, a process of drawing out what is inherent an A system of education which provides argest scope for the fullest possible develop t, growth and progress bas a claim to our attention Most of the modern systems incation fail to find the necessary scope for development of native talents and so are not Instead of fostering natural gifts tend to suppress them The object of ation is to prepare the student to successfully the battles of life and to rocrease experience bethe artificial civilized environment is created. cation has become all the more a matter of The only way of securing large and sent results by means of education is to give as liberal and practical manner, on lines re mended by our past experiences of good and

So adocation must be made compulsory cobligatory and lao free of all costs as the bot of children and young men whose parents not afford the measo of brugger frem up this connection, it should be observed that the ims and interests of the other sex should not brethood If the work of progress as to run point and unbampered, edocation must be incided to women folks also. To deny them justom is an act calculated to encourage

ignorance and superstition. Again, every educational policy which aims at perfection should adopt such means and methods as would lead to a perfect development of the health and strength of the body. The body requires to be taken care of as much as the mind.

The general concern of all educational schemes should be to get good practical results and this can be done only when example experiment and practice are given in the place of pasabstantial theories. When this has been effected the human talking machine will be transformed into an actively productive organism and will be regarded with respect as a fellow labourer worthy of his hire If education is a means to progress and freedom the child needs not only the three R a book learning and general knowledge of sciences but it imperatively demands practice in using his bands command of tools opportunity to test practically the value of theoretical knowledge and living examples to prove the truth of profess ed precepts

Improvement of Schools

The Second Ann versary of the Travalur Board High School Day was celebrated with ectat on the 31st ultimo The Hon ble Mr V S Srinivasa Sastri dolivered an interesting lecture from the chair, in the course of which he said —

Old boys meeting together cannot spend their time more profitably than to think of improving the school under whose roof they are met. It always struck me as an imperfection in the arrangements that no machinery is provided for interesting the old students in the welfare of the school, I have myself been an old boy of several schools I have felt greatly interested in their I have often thought that I may be growth nseful to the authorities. There is no means of my comparing notes with those who might take an interest in the institution. A meeting of old boys like this might be made an occasion for discussing the future of their school is one thing that might be done to improve it and be made the means of affording suitable education to the children of the locality | Lbave known really some useful ideas come from those actually procunected with the management of the institution. Some of you are educationists engaged in the shaping of other institutions so that you should be consulted in the management of the school This seems to me to be only natural However, I know there are a great many difficulties connected with it If in your meeting of teachers, the Headmaster who alone

is responsible for the internal working of the school, consulted with you, placed his difficulties before you, took you completely into his confidence and acquainting bimself with what is taking place in other places that would be the means of adding fresh life and vigour to the work of the school. Such a thing is nowhere done. I know of school and college days; they are mostly composed of students of the year whose advice on such matters may not be a very great assistance, but old boys like you who are mature men, a great many of whom are directly connected with education may serve a pseful purpose by discussing the wants of a school. Gentlemen, I am aware of the real condition of many of our indigenous schools of this Presidency. I know every school has its crying wants. There are defects of one sort or another. most of them well grounded and what stands in the way of improvement being effected, is usually what we call "vested interests." An old teacher who coght to be retired continues still on the staff. Nobody has the courage to tell him " will you please make room?" A manager who is a meddlesome person rules the school as if he were himself the Headmaster with crade notions. borrowed perhaps from the neighbouring fields and treats the masters as personal seris; or it might be through long years of lax discipline boys have got out of band, and enthroned and dethroned masters at their pleasure. It is the strong hand alone that can put down these evils and effect reform. Some family will have to suffer, some one person put to disgrace, or some inefficient person removed from the place which he has usurped. In such cases noor Indian Society is under a very serious disadvantage. We have always had an enormous love for individual comfort and very little regard for institutional efficiency. A person who is unwilling to sacrifice the interests of the school simply because an old man is likely to suffer is apt to be looked down upon as exceedingly severs. If the remedy is not applied at the right time power is weakened, action paralysed, diesatisfaction grows worse and worse, and the man who comes to sweep inefficiency away, has to inflict greater damage. It is always illconsidered charity which is exercised in favour of individuals against large institutions. Nearly every school has its evils impairing its efficiency. What we want is a strong public opinion backing up the hands of the reformer, and strengthening his hands. If new forces are to be brought into existence in our exciety it is the educational institutions that we have to regard first and foremost. In schools inefficiency ought not be

tolerated, nor heniancy shown. Old boys of some elecational experience who have learnt the exact condition of things first-hand and listened to all sorts of complaints and who deview recedies and suggest them to the proper anthorities extend the analy put army a strong of the entire transfer of th

Efficient Education.

The Poona Municipality presented an address of welcome to His Excellency Lord Willingdon on the 17th instant. The following extract from His Excellency's reply is very interesting:—

"Efficient education for the youth of every country is a matter of the deepers concern to all Overcoments and you can be assured of our sympathetic consideration in carrying, out the excellent scheme contained in your address But, important as education of the brain, I amoust of those who have always toll that education of the body is an equally angent necessity. For most interested of first the property of the

FOREIGN.

Mr. Pease on Education.

Mr. J. A. Panes, M.P., President of the Board of Education, addressed the meeting of the Association of Teachers in Technical Institutions which but been in Conference during the dogs on May 13. Alderman Warborton, Chairman of the Bradford Education Committee, presided, and was supported by the Vice-Chanceller of the University of Leeda, Mr. Michael Sadder, C. B.

Mr. Peas said he would like to atrice a note of warning in regard to what he was about to say. He was not going to outline the new Education Bill; that must be deferred until he had so opportanity of addressing his fellow-members of the Blosse of Commons. It was, of coartee, open to them to draw their own conclusions from the superstonest thought, and it was also opposed them to draw their own conclusions from the present the superstone of the present thought in the superstone of the present the superstone of the superstone of the superstone of the Cortes of the Superstone of the Cortes of the Superstone of the Sup

y Schools, and of those only one in 18, or cent, went forward into the Secondary of the country which were recognized by said of Education Each year the proper, I children entering the Secondary Schools the Elamentary Schools was norceasing, but was still a great gap because in actual cot they realized that a large unmber of desired to send their children to Secondary if who, owing to poverty, were unable to the necessary sacrifice, even though their reconstruction of the control of the processory sacrifice, even though their reconstruction of the processor of the processor

e of the problems was to know what could us to enable children, irrespective of their position, to go through the Secondary ols and on to the Universities. The problem ot been solved, though much had been done at direction. There were, of course, higher entary Schools-he thought about 50-in ountry. They had to face what he regarded very unfortunate decision in the Cockerton ment which prevented anything like higher ation being given in the Elementary Schools ural districts there were a large number of pls which could not get into touch with udary Schools at all Therefore it seemed able to him that they slould abolish the serton Judgment so that to the last year a am amount of training might be given in l areas They had also got continuation ols, which occupied a unique position, and so as they went they served a very good purpose there was some lack of persistence in boys girls leaving schools, and they had to conr whether they should use compulsion in tion to attendance at continuation classes was of opinion that compulsion should only resorted to when they found that all untary means had failed. It would be better he voung folks readily went to continuation only rather than being compelled by statute matter how good evening work might be, it abut a poor substitute for day work

they had, however, to face the appalling fact, it a large majority of the children who attend the Elementery Schools and the foundation of loose education had been well laid, did not go ward and continue their education at all yers aw boys and grish hopelessly drilling into indicable years who was mad it was for those and the properties of the properties who would adoubly draw into the educational set party or whole of the population which if about a first properties when the grant prope

They had to provide the preliminary traing necessary for those who desired to proceed

into occupations which required highly trained knowledge, such as the public services, public life, the learned professions, the control of large commercial undertakings, and so on But it was to technical education they must look to take the great reserves of the country, and with the de cav of apprenticeship it was absolutely important, if they were to face international compets tion, that they should be up and doing. He had been amazed at the appreciation of employers of trade schools day trade schools especially, and something more was to be done to increase the day trade schools He was glad to say that Mr Lloyd George had looked at the matter from the same point of view as himself, and it had been decided to increase the grant from £2 17s a head to £5 for day students and for those who were in residential institutions, such as training ships, and for the mercantile marine and the Navy, the grant would be £10 metend of £5 in the past

Browning's Earnings

An extremely interesting letter, written by Browning in 1880, and hitberto impublished appears in the "Daily Chronicle" The coniribator, Mr. J J Rossiter, explains that it was written to the Income Tax authorities It is dated 19 Wawack Crescent, W., the 23rd March, 1880 Wayneth et al.

"My noting are unpopular and unsaleable, being only written for myself and a critain small number of critica whose approbation is satisfaction enough if publish therm—never more than one in a year, at various intervals—sometimes of several years My publishers give me a royally, whatever they beams, and I drive no more than the works reached a record reduced by the works reached a record reduced, but they never do reach it, only one piece, many years ago had that distinction

"The sum I thus receive I supposed to be spital, if I invested it, the interest would, of course, be part of my income But I have furnished you with an account of the little independence which enables me to write merely for my own pleasure, and not that of the general public

"You will see by the letter from my publisher, which I enclose, that for the only book I published last year I got £125, and that rather from his considerate kindness than hope of profit (the 'last ten books' to which he allower bare been printed in the course of some eighteen or twenty years).

- "It certainly seems to ms if I were to sell as many books from my book-case as would produce £125—that would not contribute any income. The one instance of my contributing to a magasine was ten years ago, I think—when wasting to help a charity, I gave a poem the produce of which £1001 I handed over at once.
 - "But I sometimes get a sum from another source, under conditions quite different, by books consist of poems published from 1833 to 1853, or thereabouts—all at my owns expense, which was never repaid. When swenteally collected they were atterotyped, and sold singly in tolomes; and whenever any fresh copies are a mail tworalty.
 - "Last November, by this process 'Volume 5,' brought me £37-10s.
 - "I believe I have not yet received what leid ont in the original and more expenses principal and more expenses principal on the case. I get in like manner a similar sum for the posmes of the posmes
 - "I was presented in November with £62-10s,, on this account.
 - "I have got a good deal of reputation—Upiverity honome, and so forth—but that is just because I were composite for formal to the controller were largely a largely in America, but do to bring me a farthing. I am well aware many of my literary firends culaim more for a single poem, novel, or play than I ever did from all my works put together. But I take my way.

Examinations

There are few men in English public life whose speeches are always worth studies, and fewer still whose every atterance deserves attestive study. Mr. Balfoar belongs certainly to the former and probably to the latter cless. His enterest in the recent theats spon the Education Department farnish a case in point; and we make no spalogs for reproducing at length that pertion of them which concerns Ledius, more than confinently may while the Public Life, more than confinently may while the Public Life, more than confinently may be a supposed to the studies of the suppose of the suppose which has officered India in the higher branch of Government service since the Mustay, and has therefore come to be the critical by

which indigenous education is tested. Mr. Balfour does not share the enthusiasm of those who think that the best all round man can be found by the machinery of the examination room. 'Superstitions,' he truly observed, 'are very apt to grow sround parts of the policies which we adopt, but I should like to heer a really good commentary on our system of competitive examinations. The hon'ble gentleman who has just sat down described the inscriptions of honour put up in elementary schools recording the names of these who have successfully passed examinations. Ask any parent-I do not care from whatever class he may be drawn-who has a son at a Secondary school or a University, what he most desires, and the answer will be, " Success in examinations," and so it goes on. 1 do not deny that in certain respects examinations, and even competitive examinations, are an absolute necessity; but I think we have got into the hebit of talking of that which is an unhappy necessity as if it were an admirable institution. Examinations are really most soul-killing institutions. I believe they put the human mind absolutely in a wrong position with regard to knowledge. I believe they are very bad for the teacher and very bad for the taught. You hear it said "So-and-so is a most admirable school and has the best teacher ever known." The question is asked, "On what ground ?" and the reply is that a certain proportion of his scholars get such a number of exhibitions or whatever it may be. That and that alone is the test by which we measure the merits of the system and the results upon the child or young man and the benefit to the country. I believe it to be wholly and utterly wrong from beginning to end. I am quite aware that some of the praisers of the old system, who say that we got better men in public service and elsewhere in the old times when there were not these violent competitions, exaggerate greatly; but do not let the Committee believe there is no truth in what they say There is some froth in it. We all know, and it we took the trouble we should all know more of the manner in which you eap the vitality of the young and make them so admirably adapted to pass examinations successfully that, when the necessity to pass them is over, they are adapted to do nothing else whatever. I think those who criticized our ordinary method of education in the old days saw the dangers of it. In those days there was great jealousy; the question was saked, "Is general education necessary?" and the suggestion was made that it did not matter. All that has gone.

State Sovereignty.

C. F. Adams (Harvard University). er on the History and Institutions of the States of America at Oxford University, ed the fourth and concluding lecture series at Oxford He referred to the t of which he treated in his first lecturemerican form of local self government by them as State sovereignty Great n had for years, he might even say for stions, been wrestling with the Irish on Ireland, as they in America had ent cause to realize, had for centuries been less discontented, and at times unruly n of the United Kingdom , it was so still, bey were now considering, and proposed ently soon to enact, a measure designated Rule Following upon the War of sion in America there was a section of the ry seething with discontent, there was a of restlessness, with acts of violence and ges on individuals. This was only 40 years to day peace, concord, and good fellowship ed throughout the country Paradoxical as nded, the remedy for the alls consequent on ar was found in a recourse to the system a had caused it The principle of State eignty applied in its extreme form in practice the trouble, but 15 years later that same iple in its proper form, now known as Local Government, or, in other words, Home Rule, bt to a close the unrest and disturbance n naturally evened from strife. In this t, historically worked in their case, was there on beneficially to be studied by Great Britain sposing of the assues still confronting it in nd? There was the evidence, among others. r Russell, The Times Crimean Correspond that the hate of Celt to Saxon, and the empt of Saxon for Celt, simply paled and expressionless when compared with the empt and hate felt by the Southron towards Yankes anterior to the Civil War and while as in progress But it was all over nowant and forgotten history Not one man, he e bold to assert, could in all America be d gravely and dispassionately to advocate currence to the policy of force and repression onisinh had, east, estimoso, redeficin, a doubt brief and discredited period between 1260

Technical Education

1876

he Seventh Annual Conference of the Associa of Teachers in Technical Institutions was ned at Bradford on May 12, Mr P. Coleman, of the Northern Polytechnic Institute, London. presiding

In his address the President said that at present teaching was on average ill-paid. A few years ago it was disgracefully paid, and the improvement was only a relative one A technical institute could not be said to give adequate remuneration if a Principal a salary for full time was less than £500 or a foll time qualified teacher's salary was less than £160 in the case of a man or £120 in the case of a woman was quite erroneous to suppose that the salary acceptable to the young teacher with little or no experience was a proper recognition of the services of a man of ability who had worked for 20 years The report and recommendations of the R val Commission on University Education in London showed a bias that could only be due to a complete misconception of the work and standing of the Lindon polytechnics In any national system of education technical education required the most help, if it was to be placed on a proper basis and was to be able to fill its proper functions in the national economy Perhaps the greatest need in the English manufacturing world to-day was the realization of the necessity for a course of training in a technical college as a preliminary to successful work in the direction of industry The need was being realized more and more, and he hoped the time would soon come when employers generally would realize that it was good business to send their appreptices to technical institutions during the day for a limited number of periods in the week. If the nation was to be an educated nation a post elementary education must be the rule and not the exception. A large extension of the system of funior technical actools was absolutely necessary if. under modern conditions, English industry was to continue to be carried on by skilled and actelligent labour.

Colonies in International Law

The first of a course of lectures on Colonial problems organized by the University of London. King's College, was delivered at King's College, the subject of the opening fecture being "The Colonies in International Law," and the lecturer, the Rev Dr T J Lawrence, formerly Deputy Professor of International Law to the University of Cambridge Dr. Lawrence, in the course of his lec ure said the position of the Colonies in International Law was full of difficulties and even of danger in the luture, and was likely to impose a besty tax on the wisdom and good

adriability and necessity of appointing a certain number of additional Inspectors, possibly one for each of larger divisions, doe regard being paid to the anticipated growth of primary schools, the anticipated growth of primary schools, the anticipates with the Boards will expect from the Education Department, and the prime importance of the most economical use of public larges and according to the part of the prime importance of the most economical use of public larges in a campaign of this magnitude. The question of improving the pay of the inspectorate is all time greads in before Overnment at present, but any aggregation which the Committee may wish to offer will reserve the most careful attention.

13. Finally the Committee is invited to review and report on the necessity of the revision of the regulations for primary education as promulgated in the extant orders in the District Board and Municipal Manual and the Educational Code.

14. Having reviewed the whole field of primary education, the Committee may find itself in a position to formulate some general principles for the distribution among the various divisions. or even districts of the province, of the funds. which it is expected will be available for the development of primary education within the next quinquennium. The selection of the areas in which new schools will be opened, or of the private schools to which aid will be given, is essentially a matter which each District Board most determine for itself. But, if consistent and general progress is to be made the grants of public money must not follow the idiosyncracies of individual Buards or district officers: they must be used as a lever for securing moderate uniformity in the advance. It may consequently be possible to make a tentative allocation of our resources by areas, and thereby to indicate the ideal at which each area should aim. The factors for this calculation, emptrical though it must largely be, are the existing standards of literacy in the area, the school-going population of the cases which welcome education, the present supply of schools, and the share which the area may reasonably be expected to take in supplying the 300,000 children whom it is boned to secure as a minimum addition to the number of the primary scholars in the province, ____

EDUCATION IN THE MAGAZINES.

Education in Japan.

The Shogons who had held sway in Japan for a period of about six hundred years were opposed to popular education under the mistaken notion that the spread of education might weaken their hold on the country and deprive them of the ruling powers. But with the accession of Mutsubito, father of the present Mikado, national education became a question of paramount importance on which both Government and people bestowed the greatest attention and care. While the former began by starting model schools in every town and making education compulsory by legislation, the people followed the lead and founded schools in villages and hamlets to meet local requirements. In this way within a comparatively short space of time every village of Japan had arrangements made for education on national lines. But the Japanese were not contented with this : They set themselves to find out the best methods of imparting instruction to their boys and after years of discussion and experiment, kindergarten was accepted as the best system, and introduced in all the schools of Japan. Good care was also taken in the selection of text-books, and those that are now in use in elementary schools are written in easy and elegant language and contain beautiful and instructive stories, most of which are ancodotes taken from the lives of distinguished patriots and national heroes. Quardisus and parents render the boys every assistance in going through and understanding these stories and stimulate their interest and curiosity by the manner of their telling them. Games and entertainments form a special feature of Japanese schools. In every one of them music holds an important place, and it is a charming sight to see boys in uniforms coming out of the schools in files at the close of school hours singing songs in sonorous strains. Whenever two or three boys meet they fall to a tune and are joined by other boys in the streets. There are sgain excursion parties in which both teachers and boys go out for long walks. On such occasions the boys are to inure themselves to all sorts of bodily hardship and suffering. One day a large field filled with mud and mire is to be crossed in the midst of rain and storm, another day it is a high peak of a mountain which is to be ascended after miles of tiresome journey in scorching sunny weather. It is a common sight to see Japanese children being thrown into the sea or the tiver with a view to teach them the art of swimming Sometimes also they are divided into parties and fight in tournament in the course of which they are given practical lessons in all the tactics of actual warfare A boy guilty of an offence is not given any corporal punishment, nor even spoken to harshly or with words of rebuke, a few words of advice followed by detention after closing being deemed sufficient pur shment and adequate corrective for all paltry offences If a boy be beaten by a school fellow, he has no redress to seek, only reprimend to meet for an unavenging silence in this matter denotes not only cowardice but also loss of family prestige and honour The Japanese language consists of more than 3000 characters Japanese children bave no pens They use brushes instead The facility with which they handle the latter well prepares them for the arts of drawing and painting in which every Japanese boy is more or less proficient -The Leader

Growth of Education

A lectore on the "Growth of Society and Education" was delivered by Mr D P Thakore, in the Pachaiyappa's Hall when the Hon Mr Justice P R Sandara Alyar presided The

following is an abstract taken from the lecture -"Education is as the etymology of the word denotes, a process of drawing out what is inherent in map A system of education which provides the largest scope for the fullest possible development, growth and progress has a claim to our best attention Most of the modern systems of education fail to find the necessary scope for the development of native talents and so are not commendable Instead of fostering natural gifts they tend to suppress them. The object of education is to prepare the student to successfully fight the battles of life and to increase experience Since the artificial civilized environment is created education has become all the more a matter of necessity. The only way of securing large and efficient results by means of education is to give it in a liberal and practical manner, on lines re commended by our past experiences of good and evil So education must be made compulsory and obligatory and also free of all costs in the case of children and young men whose parents cannot afford the means of bringing them up In this connection, it should be observed that the claims and interests of the other sex should not be overlooked If the work of progress is to run smooth and nohampered, education must be extended to women folk also. To deny them education is an act calculated to encourage ignorance and supersition. Again every educational policy which aims at perfection should adopt such means and methods as would lead to a perfect development of the health and strength of the body. The body requires to be taken care of as much as the much

The general concern of all educational schemes should be to get good practical results and this can be done only when example, experiment and practice are given in the place of unsubstantial theories. When this has been effected, the human talking machine will be transformed into an actively productive organism and will be regarded with respect as a fellow labourer worthy of his hire If education is a means to progress and freedom, the child needs not only the three R s book learning and general knowledge of sciences but it imperatively demands practice in using his hands command of tools opportunity to test pract cally the value of theoretical knowledge and living examples to prove the truth of profess ed precepts

Improvement of Schools

The Second Anniversary of the Trinvalur Board High School Day was celebrated with clat on the 31st ultimo Tie Hon ble Mr V S Srinivasa Sastri delivered an interesting lecture from the chair in the course of which he said

Old boys meeting together cannot spend their time more profitably than to think of improving the school under whose roof they are met. It always struck me as an imperfection in the arrangements that no machinery is provided for interesting the old students in the welfare of the school, I have myself been an old boy of several schools I have felt greatly interested in their prowth I have often thought that I may be nseful to the authorities. There is no means of my comparing notes with those who might take an interest in the institution. A meeting of old boys like this might be made an occasion for discussing the future of their school That is one thing that might be done to improve it and be made the means of affording suitable education to the children of the locality known really some useful ideas come from those actually anconvected with the menegement of the institution. Some of you are education ats engaged in the shaping of other institutions so that you should be consulted in the management of the school This seems to me to be only natural However, I know there are a great many difficulties connected with it. If in your meeting of teachers, the Headmaster who alone

is responsible for the internal working of the school, consulted with you, placed his difficulties before you, took you completely into his confidence and acquainting bimself with what is taking place in other places that would be the means of adding fresh life and vigour to the work of the school. Such a thing is nowhere done. I know of school and college days; they are mostly composed of students of the year whose advice on such matters may not be a very great assistance, but old boys like you who are mature men, a great many of whom are directly connected with education may serve a useful purpose by discussing the wants of a school. Gentlemen, I am aware of the real condition of many of our indigenous schools of this Presidency. I know every school has its crying wante. There are defects of one sort or another, most of them well grounded and what stands in the way of improvement being effected, is usually what we call "vested interests." An old teacher who ought to be retired continues still on the staff. Nobody has the courage to tell him " will you please make room?" A manager who is a meddlesome person rules the school as if he were himself the Headmaster with crade notions, borrowed perhaps from the neighbouring fields and treats the masters as personal serie; or it might be through long years of laz discipline boys have got out of hand, and enthrough and dethroned masters at their pleasure. It is the strong hand alone that can put down these evils and effect reform. Some family will have to auffer, some one person put to disgrace, or some inefficient person removed from the place which he has usurped. In such cases poor Indian Society is under a very serious disadvantage. We have always had an enormous love for individual comfort and very little regard for institutional efficiency. A person who is unwilling to sacrifice the interests of the school simply because an old man is likely to soffer is apt to be looked down upon as exceedingly severe. If the remedy is not applied at the right time power is weakened, action paralysed, dissatisfaction grows worse and worse, and the man who comes to sweep inefficiency away, has to inflict greater damage. It is always illconsidered charity which is exercised in favour of individuals sgamet large insurations. Nearly every school has its evils impairing its efficiency. What we want is a strong public opinion backing up the hands of the reformer, and strengthening his hands. If new forces are to be brought into existence in our society it is the educational institutions that we have to regard first and foremost. In schools inefficiency ought not be

tolerated, nor leniency shown. Old boys of some educational experience, who have learns the exact condition of things first-hand and listened to all sorts of complaints and who levies remedies and angreet them to the proper authorities cannot be easily not away. I know it requires a great way. I know it requires a great frame workship exceptions. Nobody can accuse these old peptips of seight designs.

Efficient Education

The Poons Municipality presented an address of welcome to His Excellency Lord Willingdon on the 17th instant. The following extract from His Excellency's reny is very interesting:—

"Efficient education for the youth of every country is a matter of the despers concert to all Governments and you can be assured of our sympathicis consideration in carrying out the secolient subeme contained in your address Hafinportant as education of the brain, I sam one of those who have always felt that education of the body is an equally regular losses; I. am bused fore much interested to find that your and open each to secure as well hastlish will ensure their editions being brought up rigorous in brain, strong and affer feliams in body fitting themselves by work and bealthy asserties to become useful and bonourable cliticans of your town."

FOREIGN.

Mr. Pease on Education.

Mr. J. A. Pease, M.P., President of the Board of Education, addressed the meeting of the Association of Teachers in Technical Institutions which had been in Conference during the day on May 13. Adderman Warbarton, Chairman of the Bradford Education Committee, presided, and was supported by the Vice-Chancellor of the University of Leads, Mr. Michael Sadder, the

Mr. Pease said he would like to strike a note of waroing in regard to what he was about to any. He was not going to outline the new "Sdu-cation Dit; that must be defected until be had an opportunity of addressing his fellow-members of the Hones of Commons. It was, of course, the appreciance of Longitz, and the residence of the strike of Commons and the strike of t

mentary Schools, and of those only one in 16, or 6 per ceat, went forward into the Secondary Schools of the country which were recognized by the Board of Education Each year the proportion of children entering the Secondary Schools from the Hemotary Schools was increasing, but there was still a great gap, because in settal practice they sealized that a large number of papile desired to send their children to Secondary Schools who, owing to poverty, were anable to make the necessary sacrifice, even though their children obligated free places

One of the problems was to know what could be done to enable children, arrespective of their social position, to go through the Secondary Schools and on to the Universities The problem had not been solved though much had been done in that direction There were, of course, higher Elementary Schools-be thought about 50-in the country. They had to face what he regarded as a very unfortunate decision in the Cockerton Judgment which prevented anything like higher education being given in the Elementary Schools In rural districts there were a large number of schools which could not get into touch with Secondary Schools at all Therefore it seemed destrable to him that they should abolish the Cockerton Jadgment so that in the last year a certain amount of training might be given in rural areas They had also got contingation schools which occupied a prigue position, and so far as they went they served a very good purpose but there was some lack of persistence to boys and gurls leaving schools, and they had to consider whether they should use compulsion in relation to attendance at continuation classes He was of opinion that compulsion should only be resorted to when they found that all voluntary means had failed It would be better if the young folks readily went to continuation schools rather than being compelled by statute No matter how good evening work might be, it was but a poor substitute for day work

They had, however, to face the appalling facithat alarge majority of the children who stieded the blumentery Schools and the foundation of whose edecation had been well land, did not go forward and continue their education at all. They saw hops and grids hopelessly drifting into blind, alley occupations, and it was for those must ofthe day to make application for the gradually drawnise the educational per many gradually drawnise the educational per many the whole of the population which left school at 14. They had to provide the preliminary transing necessary for those who desired to proved into occupations which required bighty trained knowledge such as the public services, public life, the learned professions, the control of large commercial undertakings, and so on But it was to technical education they must look to take the great reserves of the country, and with the de cay of apprenticeship it was absolutely important, if they were to face international competition, that they should be up and doing He bad been amazed at the appreciation of employers of trade schools day trade schools especially, and something more was to be done to increase the day He was glad to say that Mr trade schools Lloyd George bad looked at the matter from the same point of view as himself, and it had been decided to increase the grant from £2 17s a head to £5 for day students, and for those who were in residential institutions such as training ships and for the mercantile matine and the Navy, the grant would be £10 instead of £5 in the rast

Browning's Earnings

An extremely interesting letter, written by Browning in 1820, and britherto unpublished appears in the "Daily Chronicle" The contributor, Mr. J J Rossier explains that it was written to the lacome Tax subhorities It is dated 19 Wanwick Crescent, W., the 23rd March, 1820 Wa give the following extracts.

"My noems are supopular and unsaleable, being only written for myself and a certain sull number of critics whose sy probation is satisfaction enough. I publish them—never more than one in a year, at various intervals—nometimes of perfect that the state of the same in a year, at various intervals—nometimes of perfect that the same in the same of the sam

"The sam I thus receive I supposed to be capital, if I invested it, the interest woold, of course, be part of my income But I have fur nished you with an account of the little in dependence which cashies me to write merely for my own pleasure, and not that of the general pablic

"You will see by the letter from my publisher, which I notice, that for the only book I published last year I got £125, and that rather from I is considerate knotness than hope of profit (the 'last ten books' to which he slidde have been printed in the course of some eighteen or insuffy year).

- "It certainly seems to me if I were to sell as £125—that would not contribute any income. £125—that would not contribute any income. The one instance of my contributing to a magains was ten years ago, I think—when wanting to help a charity, I gave a poem the produce of which £1001 I handed over at once.
- source, under conditions quite different. My books consist of poems published from 1833 to 1853, or thereshouls—all at my own expense, which was never repaid. Whom eventselly colvidered to the second of the column of the colum

"But I sometimes get a sum from another

- brought me £37-10s.
 "I believe I have not yet received what laid
- ont is the original and more expensive printing -to say nothing of profits in the care. I get in like manner a similar som for the poems of my late wite; but this virtually agift due to the publishers' good feeling—as the copyright is expired, and he or anybody may print them at his pleasure—as was dose last year.
- "I was presented in November with £62-10s., on this account.

"I have got a good deal of repotation—University honours, and so forth—but that is just because I never wrote for money. My works circulate very largely in America, but do not bring me a fartbing. I am well aware many of my literary fireded solian more for a single poem, novel, or play than I ever did from all my works put together. But I take my way.

Examinations

There are few men in English public life whose speeches are always worth reading, and fewer still whose every utterance deserves attentive study. Mr. Balfour belongs certainly to the former and probably to the latter class. His remarks in the recent debate upon the Education Department furnish a case in point : and we make no apology for reproducing at length that portion of them which concerns India, more than ordinarily now while the Public Services Commission is slowly proceeding with its labours. The competitive examination is the engine which has officered India in the higher branch of Government service since the Mutiny. and has therefore come to be the criterion by

which indigenous education is tested. Mr. Balfour does not share the enthusiasm of those who think that the best all round man can be found by the machinery of the examination room. Superstitions,' be truly observed, 'are very apt to grow around parls of the policies which we adopt, but I should like to beer a really good commentary on our system of competitive examinations. The hen'ble gentleman who has just sat down described the inscriptions of honour not up in elementary schools recording the names of these who bave successfully passed examinations. Ask any parent-I do not care from whatever class he may be drawn-who has a son at a Secondary school or a University, what he most desires, and the answer will be, " Success in examinations," and so it goes on. I do not deny that in certain respects examinations, and even competitive examinations, are an absolute necessity; but I think we have got into the hebit of talking of that which is an unhappy necessity as if it were an admirable inetitution. Examinations are really most soul-killing institations. I believe they put the human mind absolutely in a wrong position with regard to knowledge. I believe they are very bad for the teacher and very had for the taught. You hear it said "So-and-so is a most admirable school and has the best teacher ever known." The question is asked, "On what ground ?" and the reply is that a certain proportion of his scholars get such a number of exhibitions or whatever it may be. That and that alone is the test by which we measure the merits of the system and the results upon the child or young man and the benefit to the country. I believe it to be wholly and utterly wrong from beginning to end. I am quite aware that some of the praisers of the old system, who say that we got better men in public service and elsewhere in the old times when there were not these violent competitions, exaggerate greatly; but do not let the Committee believe there is no truth in what they say There is some trath in it. We all know, and if we took the trouble we should all know more of the manner in which you sap the vitality of the young and make them so admirably adapted to pass examinations successfully that, when the necessity to pass them is over, they are adapted to do nothing else whatever, I think those who criticized our ordinary method of education in the old days saw the dangers of it. In those days there was great jealoney; the question was asked, "Is general education necessary?" and the suggestion was made that it did not matter. All that has gone.

State Sovereignty.

JUNE 1913.1

Dr. C F. Adams (Harvard University), Lecturer on the History and Institutions of the United States of America at Oxford University, delivered the fourth and concluding lecture of the series at Oxford He referred to the anbiect of which he treated in his first lecturethe American form of local self government known by them as State sovereignty Great Britain had for years, he might even say for generations, been wrestling with the Irish question Ireland, as they in America had sufficient cause to realize, had for centuries been a restless, discontented, and at times unruly portion of the United Kingdom, it was so still, and they were now considering and proposed apparently soon to enact, a measure designated Home Rule Following upon the War of Secession in America there was a section of the country seething with discontent, there was a spirit of restlessness, with acts of violence and outrages on individuals This was only 40 years ago , to-day peace, concord, and good fellowship reigned throughout the country Paradoxical as it sounded, the remedy for the ills consequent on the war was found in a recourse to the system which had caused it. The priociple of State sovereignty applied in its extreme form in practice led to the trouble, but 15 years later that same principle in its proper form, now known as Local Self Government, or, in other words, Home Rule, brought to a close the unrest and disturbance which naturally ensued from strife in this result, historically worked in their case, was there a lesson beneficially to be studied by Great Britain in disposing of the issues still confronting it in Ireland? There was the evidence, among others, of Dr Russell, The Times Crimean Correspond ent, that the hate of Celt to Saxon, and the contempt of Saxon for Celt, simply paled and grew expressionless when compared with the contempt and hate felt by the Southron towards the Yankee anterior to the Civil War and while it was in progress But it was all over nowancient and forgotten history Not one man, be made bold to sesert, could in all America be found gravely and dispassionalely to advocate a recurrence to the policy of force and repression to which a mistaken recourse was had during the brief and discredited period between 1266 and 1876

Technical Education

The Seventh Annual Conference of the Association of Teachers in Technical Institutions was opened at Bradford on May 12, Mr. P. Coleman,

of the Northern Polytechnic Institute, London, presiding

In his address the President said that at pre-

sent teaching was on average ill paid. A few years ago it was disgracefully paid, and the improvement was only a relative one A technical institute could not be said to give adequate remuneration if a Principal a salary for full time was less than £500 or a full time qualified teacher's salary was less than £160 in the case of a man or £120 m the case of a woman It was quite erroneous to suppose that the salary acceptable to the young teacher with little or no experience was a proper recognition of the services of a man of ability who had worked for 20 years The report and recommendations of the Royal Commission on University Education in London showed a bias that could only be due to a complete misconception of the work and standing of the Lindon polytechnics In any national system of education technical education required the most help, if it was to be placed on a proper basis and was to be able to fill its proper functions in the national economy Perhaps the greatest need in the English manufacturing world to-day was the realization of the necessity for a course of training in a technical college as a preliminary to successful work in the direction of industry The need was being realized more and more, and he hoped the time would soon come when employers generally would realize that it was good business to send their apprentices to technical institutions during the day for a limited number of periods in the week If the nation was to be an educated nation a post elementary education must be the rule and not the exception A large extension of the system of junior technical schools was absolutely necessary if, under modern conditions English industry was to continue to be carrried on by skilled and intell gent labour.

Colonies in International Law

The first of a coarso of lectures on Colonial Knega Colleges organized by the Justienty of Londou, Knega Colleges the delivered at Knega College, the subject of the opening lecture being "the subject of the opening lecture being" the bar Dr. International Law, and the lecturer, the like Dr. J. Lawrence, formerly Deputy Professor of International Law in the University of Cambridge Dr. Lawrence, in the course of bis lecture said the position of the Colonies in International Law was fall of of floutines and were not danger in the fotors, and was liken on impose a heavy tax on the windom and good.

will of both rulers and people. In connexion with the question of neutrality he laid it down that the great self-governing Colonies could not invoke the principle of limited liability. In war all parts of the Empire must eink or swim together He expressed much sympathy with the school of political thought which has arisen more prominently in Canada, which objected to being obliged to spend their blood and treasure in any wars which do not affect their rights and interests, and which they might hold to be morally indefensible. Hence arose the disposition to claim that their armed forces should be antirely under their own control, and he did not think Great Britain disputed that. But neutrality and belligerency were functions of sovereign States. A Power could no more be neutral in part and belligerent in part than a man could be married in part and single is part. No foreign country would recognize any such in-and-out arrangement. If ever an attempt was seriously made to create a curious race of international entities we should be British at one moment and non-British at the next. They might be certain that it would break down badly. If some small central body could be created on which served together the British Prime Minister and the Foreign Secretary for the time being, along with representatives of the Ministry of the day in each of the great self-governing Dominions, it seemed to him possible that the great democracies concerned might be induced to place in its hands the momentous issues of war, peace, and neutrality. If this development of a new organ to perform this most important function ever took place, every war would be an Imperial war in reality as well as in name, and therefore no idea. of an attempt to keep outside it would ever arise in any of the political entities whose representatives had spreed to make it.

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Literary Remuneration.

At the annual dinner of the Royal Literary Fond, held at the Savoy Hotel, London, Lord Carzon spoke on Literary Rempneration, from which we take the following extract :-

He was not going to argue that literature was a crossly underpaid profession, although when he compared it with the emcluments of some others he felt a passing qualm. The remuneration of lawyers and doctors was stable and secure-Not so with literature. Literature gave its great and splendid rewards, but they fell to a few. Literature also had its great, disastrous, and pitiable failures. The fund did not exist for supporting unrecognized genius. But outside

the magic and irresponsible circle of genius there were a number of men and women who sometimes in the accident of life stumbled and fell by the way. Some of them had chosen a wrong vocation, and others of them were broken by ill-fortune. Some were only temporarily submerged and required only a helping hand to lift them on to dry land. Those were the cases that were taken in hand by the fond.

Some eminent persons had held the view that poverty was the propelling force of literary genius and had started the amazing thesis that narrow means were essential to great literary productions. He declined to admit that there was any stimulas in poverty or any inspiration in secular. Voltaire lived happily for bimself in days before Marconi shares, but Voltaire made a very good thing out of several Government lotteries. He speculated largely and successfully in the coru trade, and he made a good deal of money out of army contracts. He had no doubt that had Voltaire lived nowadays there would have been a House of Commons Committee sitting on him. But, nevertheless Voltaire wrote with the tongue of men and of augels. According to Lord Rosebery they ought to find a Lazarus in every niche of the temple of fame. It seemed to him, as regarded literary productions, that the rich man and the poor man were in much the same condition.

The Future of Poetry.

Mr. Edmund Gosse delivered a lecture on " The Future of English Poetry" before the English Association, London, on May 30. Mr. John Bailey was in the chair.

Mr. Gosse said that the principal danger to the future of poetry seemed to him to rest in the necessity of freshness of expression. With the superabundant circulation of language year after year, week after week, the possibilities of freshness grew rarer and rarer. The obvious, simple, poignant things seemed all to have been said. Each generation was likely to be more preoccupied than the last with the desire for novelty of expression. Accordingly the sense of originality, which was so fervently demanded from every new echool of writers, would force the poels of the fature to sweep away all recognized impres-He thought that in consequence the natural uses of English and the obvious forms of our speech must be driven from our national poetry. In new generations there was likely to cocur less description of plain material objects, because the aspect of these had , stready received every obvious tribute. So also there could hardly fail to be less precise enumeration of the primitive natural emotions, because that also had been done already and repeated to satisty Poetry as an art, in one shape or another, would escape from the bankruptcy of language, but it would only be at the cost of much that they at present admired and liked that the continuity of the art of verse would be preserved.

He expected to find the modern poet accepting more or less consciously an ever increasing sym bolic subtlety of expression. In his anxiety not to repeat what had been said before, and in his horror of the trite and the superficial, he would achieve effect by wrapping the truth in darkness The domain of verse had been persistently narrowed by the incursions of a more and more powerful and wide-embracing prose. No ode or threnody could equal in vibrating passion Captain Scott's last testament The poetry of the future was likely to be very much occupied with subjects and with those alone, which could not be expressed in the prose of the best edited newspaper, and he believed that the closing up of the poetic field would isolate the poet from his fellows That was likely to lead them to band themselves more closely together for mutual protection He also thought it very likely that sexual love might cease to be the predominant theme in lyrical poetry. The poetry of the future might not improbably become more and more dramatic although perhaps by a series of acts of definite creation rather than as the result of observation which would be left to the even increasing admittees of the brilliant master of our prose

THE UNIVERSITIES

MADRAS UNIVERSITY We are asked to publish the following -SENATE HOUSE, No 2133

From

Manager-in-charge, Office of the Beautrar, University of Madras

John J HENSMAN, Esq., BA., THE PRINCIPALS OF ALL AFFILIATED COLLEGES

I have the honour, by the direction of the Syndicate, to inform you that the Regulations of the General Medical Council of Great Britain, regarding the examinations recognised as a suffi

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cient test of preliminary education in the case of students entering upon medical courses of study. require that each such student shall have passed the qualifying examination in a classical language. The Council has under consideration the revision of its Regulations and is in correspondence on the subject with the Syndicate The Council has expressed its intention of accepting the Intermediste Examination in Arts of this University as a qualifying examination in the case of students entering upon medical studies provided that such students have taken a classical or classical oriental language either in Part II or Part III (Optional Group m) and have satisfied the Examiners

In view of this proposal of the General Medical Council, Principals of Arts Colleges are advised to warn their students that those who wish to enter upon the medical career must take up the study of a classical or classical oriental language for the Intermediate Examination It is improbable that the Conneil will grant any concessions on this point in the case of students commencing their Intermediate course of studies during and after the academic year 1913 14.

I have the honour to be. Sir.

Your most obedient servant. JOHN J HEVEMAN, Manager in charge.

No 2792

SENATE HOUSE. 24th June, 1913

From JOHN J. HESSMAN, ESQ. B L.

> Manager in charge, Office of the Regutrar, Universit; of Madras.

THE HEAD MASTERS OF ALL RECOGNIZED HIGH SCHOOLS

I have the bonour, by the direction of the Syndicate, to inform you that the Regulations of the General Medical Council of Great Britain, regarding the examinations recognized as a sufficient test of preliminary education in the case of students entering upon medical courses of study, require that each such student shall have passed the qualifying examination in a classical language The Council has under consideration the revision of its Regulations and is in correspondence on the subject with the Syndicate The Conneil has expressed its intention of accepting the Intermediate Examination in Arts of this University as a

Sch May, 1913

qualifying examination in the case of students entering upon medical studies, provided that such students have taken a classical or clean! language either in Part II or Part III (Optional Group iii) and have estisfied the Examiners therein.

In view of this proposal of the General Medical Quancil, Principale of Arts Colleges have been advised to warn their students that those who with to retree upon the medical current must fals up the for the Intermediate Examination. It is improbable that the Council will grant any concessions on this point in the case of students convencing their Intermediate Examination and students convencing their Intermediate course of students convencing.

after the academic year 1923-14.
An it will be apparently impracticable for a
Becondary School-leaving Gertafeate Holder or a
Statistudie to take up the study of a classical or
classical oriental language either in Part II or
Part III of the Intermediate course suches he has
studied the language during his school course alee,
I am directed to Intitle your attention to this
man and to require the pupils of your oriented
that are all the proper that the country of the
man interest and the property of the property of the
man interest and the property of the pupils of the p

I have the bonour to be, Sir, Your most obedient servant, Jone J. Hessman.

Jour J. Hersman, Manager-in-chorge,

M. L. Degree Examination, 1913.
Baluck IV.

Porosbottam, Kaza No. 12. Passed III class. The rest falled.

BUANCHES I AND III,

Diploma for Astronomy.

courses of study.

Tur Madras Government have communicated to the University of Madras the offer of a medal and diploma by the Maxican Astronomical Society to any astronomer who discovers a comet.

M. A. Degree Examination, 1918.

BRANCH I:—Atorita Rau, Kardad, III class. Kitchasawani, T. K. III class. Mutukrishnan, S. III class. Narasimbaraphayachar, Andaparam, II class. Ramaswami, T. M., III class. Srinivasa Rau, Chickbalapur V, III class. Vaidyanathan, L. S. II class.

Bagger IV (PRILOSPIT):—Adisebajra, Vernasi P., III class. Kamesvar Bas, Siria, III class. Raspasmani, G., III class. Sankonoi, Comparagi, III class. Satyasarayananari, Jayani, III class. Sayanna Satir, Valireti, III Jayani, III class. Sayanna Satir, Valireti, III Class. Siaramann, P.S. III class. Salvamarayan. P. V., III class. Sayanasayanan, Safalr S. I class.

BRANCE VI. (LAYIS) Balesigam, Samuel, III

B. A. Degree Examination, 1913.

Second Landrage Division: -- lat class-9; 2nd class-126; 3rd class-95.

Branch I: ist class-2; 2nd class-22; 3rd class-38.

Branch II A: lat class-1; 2nd class-17; 3rd

class -33.
BRANCH H B: 2nd class-1.

Beauch III A : 2nd class-2.

BRANCH III A : 200 class-2.

have passed.

Brance III C: 2nd class-2; 3rd class-4. Brance III D: 2nd class-1; 3rd class-3.

Beases IV: lat class-1; 2nd class-24; 3rd class-33.

Branch V: lat class-1; 2nd class-21; 3rd class-101.

BRANCH VI : 1st class - 3 ; 2nd class - 9.
PRALIMINARY ENGLISH LANGUAGE : All except 10

B A. Degree Examination, 1918. (New Regulations).

(New Regulation),
Part I: 1st class—9; 2nd class—270.
Part II - 1st class—1; 2nd class—25.
Group II A: 1st class—4; 2od class—35.
Group II B: 1st class—2: 2nd class—6.

GROUP IV: 1st class-2; 2nd class-2. GROUP IV: 1st class-3; 2nd class-all except 0.

GROUP V : 2nd class-144.

L. T. Degree Examination, 1913.

All passed except 14.

Intermediate Examination in Arts, 1913.

GROUP I: let class—105; 2nd class—179. GROUP II: let class—10; 2nd class—43. GROUP III: let class—23; 2nd class—349.

Matriculation Examination, 1913. I CLASS-5; II CLASS-16; III CLASS-27.

CALCUTTA UNIVERSITY

Benate Meeting

A meeting of the Senate of the Calcuta University was held at the Senate Horse, College Square The Hon Sir Asatosh Mockerjee, Vice-Chancellor, presided and there was a fair attend ance of Fellows.

The Senate accepting the recommendations of the Syndicate appointed the following gentlemen as University Readers in the subjects noted

against their names tDr Paul Vinogradoff, Corpus Professor of
Jurisprudence in the University of Oxford on
"Kinship in Early Law"

Professor Hermann Jacobie, of the University of Bone, on "The Theory of Indian Alankar"

Mr. S R Bhandarkar M A, on "Introduction to the Study of Indian Epigraphy"

to the Study of Indian Epigraphy."

The Senate re appointed the following gentle men as University Lecturers at Bankipore for two

Prof Jadu Nath Sirker in History

TORTS -

Mesers C Russell and A F Horne in Loo-

The Senate resolved that in addition to the militation already granted to the Cotton College, Ganhati, it is further affiliated to the following standards and adaptication. H. A. Standard—Historia Poglish, Standard—Historia Poglish, Standard—Historia Poglish, Standard, Historia Poglish, Standard, Historia Poglish, The Historia Poglish, Poglish

The New School Final

It is rumoured in the Press that the new Director of Public Instruction proposes to do away with the Matricalation Fraumation under the jurisdiction of the University, School Final Fraumation being substituted as in Fagland under the control of the Ladzalonal Department.

Matriculation Results

The Calestra University Matrix plation I samination results have been published and it is gratifying to note that no fewer than 50 per coulof the candidates have come out successful, the total number being 6 937, of whom no fewer than 4/33 were placed in the first dirishen.

BOMBAY UNIVERSITY

SENATE MEETING A Meeting of the Senate will be held in the

Sir Cowasi Jehangir Hall of the University on Friday the 4th July 1913 at 5 45 p.m., when the following subjects will be discussed —

(1) Assumment of Fellows to Feedings (6)

(1) Assignment of Fellows to Faculties, (ii) Alteration of the dates of commencement of the First and Second LLB Lxaminations, (iii) Amendment of General Regulation No 46 consequent on the institution of the Degrees of Bache lor of Commerce, Master of Science and Doctor of Hygiene (iv) Academic Costume to be worn by candidates seeking admission to the Degrees of Bashelor of Commerce Master of Science and Doctor of Hygiene, (v) Amendment of the Regulation regarding the transfer of students from one College to another (vi) A proposal to so modify the standard for passing the Matri culation I samination as to permit a candidate who thay fail in one subject only and who may outain an aggregate of at feast 65 per cent of the total marks obtainable to pass the Examina tion on the recommendation of a majority of two thirds of the examiners

ALLAHABAD UNIVERSITY

The Register of the University of Allahabad has notified that, provided the Holi Festival does not fall on any of these dates—

(1) the Intermed ate and the Watriculation Framinations of 1914 will be held on Monday, the 16th March and following days, beginning at 10 LM each day, one paper as far an possible being given daily in the Intermediate I zamina tion, and two papers daily in the Matriculation Liamination , (11) the Degrees (Arts and Science) Examinations of 1914 will be held on Monday, the 30th March and following days beginning at 7 AM rach day, one paper as far as possible being given daily, (in) the Previous and Final LL B and its LLM Framinations of 1914 will be held on Monday, the 27th April 1916 and following days, beginning at 7 a 2 each day, one paper he far as possible being given daily ; (iv) the L-T I sammation of 1914 will be held on Monday, the 6th April 1914 and following days, beginning at 7 a.m each day, one paper being

given daily.

The dates for the Degree Practical Framing-tions will be notified hereafter

Franciscou Restre

The results of the recent examinations of the Allshabed University have been published. In

the M.A. Final, out of 52 students one was disallowed and of the remainder four bave passed in the first division, 11 in the second division, and 21 in the third; while in the Previous 53 out of 126 have been anccessful-two in the first. 14 in the second and 37 in the third division. In the M Sc. Final 16 have passed and only one has been plucked; of those who have passed, 5 are placed in the first division, 4 in the second, and 7 in the third. Ten out of 12 students who sat for the M. Sc. Previous are declared to have passed, three in the first, one in the second and eix in the third division. Out of E90 candidates for the B A. Examination, 9 could not appear; of the remainder two have passed in the first division, 81 in the second and 258 in the third. Of the two first division students one is a lady. Miss Mand Annie Keogh of Mussooree. At the B. Sc., out of 170 students one was disallowed. and of the remainder 8 have been placed in the first division, 37 in the second and 28 in the third.

LONDON UNIVERSITY.

A Chair of Chemistry.

At a mesting of the Senate of the University of London on May 21, the Visc-Chanceller (Dr. W. P. Harringham) presiding, Dr. George Barger was appointed, as from Cotober 1st next, to the University Chair of Chemistry, tenable at the Royal Holloway College, with the states of appointed teacher. Dr. Barger has held posts in the University of Bruesles and in the Welcome in the University of Bruesles and in the Welcome to the Chemistry, and has been since 1909 head of the Chemical Expertment of the Chemistry College.

Dr. McClare, addressing the University College (London) Guild of Gradaste, said thas "the edecations! awakening of modern England had owed not a little to the Matriculation Examination of the University of London."

Sir Philip Maguar, spoke on the Beport of the Rayal Commissioners on the University of London from which the following is an extract;—One University is and meet remain unique, for the University is and meet remain unique, for the state of the Commissioners of the Commissioners of we cannot hope to attain to the perfect ideal angusted in the Oramissioners Report by the endeavore to reconstruct it according to a Oraman or any other model. Personally, there is nothing to which I take greater exception than our reducational system.

But when I see the vast number of earer students who come here annually to receive the reward of their diligence and progress in the search after knowledge; when I review the long list of eminent teachers under whom so many of them have studied; when, too, I recall the contributions to the advancement of science and learning which proceed from our research departments, and the names of the distinguished men and women, now living, who look with pride and satisfaction to this University as their Alma Mater, I must own I fail to recognize our University in the fundamentally defective institution described in the pages of the Report. Still, it is due to those who have devoted so much time and patience to the preparation of that Report that we should consider it free from prejudice or bias, with an earnest and real desire to profit by it, and to accept such of its proposals as make for the wider and more efficient training of our citizens and are at the same time compatible with the best traditions of our University.

A PATNA UNIVERSITY.

The Government of Bihar and Orissa have issued the following Resolution, dated Ranchi, May 19th :-

The Government of India bave, on several occasions, explained the necessity which has arisen for circumscribing the limits of Universities in India and the desirability of forming more numerous centres in which the full advantage of the teaching and residential system of University life may be enjoyed. In November last the Local Government informed the Government of India that a strong and growing demand had srises for a separate University for the Province of Bibar and Oriesa and that they proposed to constitute a Representative Committee with a view to formulating a definite scheme. The Government of India having assented to the adoption of this course, His Honour the Lieutenant-Governor announced, at the meeting of the Legislative Council held on February 12th, 1913, that the question of establishing a University at Patna with the fullest possible provision for teaching and residence was under consideration, and that a Committee would be appointed to enquire into and report on the whole subject. This announcement was received most favourably, and a cordial desire to co-operate in the execution of the project has been freely expressed on all sides.

The Licetenant-Governor in Council is now plassed to appoint the following gentlemen to frame a scheme for the establishment of a Univer-

sity for the Province of Bihar and Orissa --

Mr R Nathan President, the Hon, Mr Madhu Sadan Das the Hon Khan Bahadar Saivid Muhammad Fakhr ad din , the Hon Rai Sheo Shankar Sabay, Bahadur the Hon Babu Dwarks Nath , Mr. Sasyid Naral Hada Mr. A. G Wright, who will officiate as Director of Public Instruction during the absence on leave of the Hop Mr N L. Hallward Mr W A J Archbold, Principal, Dacca College Russell, officiating Principal, Patna College, Mr. V H Jackson, Professor of Physics, Patna College, Mr. K. S. Caldwell, Professor of Chemistry, Patns College, Mr Sachidananda Sinha the Rev. S. L. Thomson Pencioni, St. Columbas College Hazaribagh , Mr D N Sen Principal, Bihar National College, Bankipore Mr P C Tallents will act as Secretary to the Committee

The Lieuteaunt Governor in Conneil hopes that the Hon Mr. N. L. Hallward, M. A., Director of Public Instruction, will, until his departure on leave, give the Committee the benefit of his advice

The Lieutenant Governor in Council desires as far as possible to leave the Committee unfettered in the execution of the important task entrusted to them, and will make only a few observations for their general guidance The University is intended for the benefit of the whole province and the needs of all parts of the country and of all sections of the people should therefore, receive the most careful attention should be made for a I niversity at Patns or at some convenient ; lace in its neighbourhood, of the teaching and residential type, and for the a Eliation to this central institution of colleges situated in other places. The schemes both for the coniral University and for the external colleges, should be worked out in fall, and should be accompanied by a financial estimate sufficiently detailed to enable it to be placed before the Government of India. The recommendations abould not sayo we may such additional cost to the stadents as would discourage them from taking fall advantage of the fare sties which will ba offered

The Committee are authorised to consult any authorities whose assistance they may reed and the Leautenant florernor to Coucil strain that all persons whose help may be thus smoked will be ready to afford it

The report of the Committee will be published and circulated for comment and advice before any definite and on is taken.

TECHNICAL EDUCATION.

Tyreweller Torics

[The Editor invites control ations on Topics regarding Typewriters]

THE L C SMITH AND BEOS' TYPEWRITER
(Continued from last 12242)

At the end of the line the carriage is returned and the spacing device is operated with one movement of the right band it is not necessary to raise the left hand from the keyboard nor to cross the right over it to make the return As the carriage moves back and forth without sticking or binding it is important that the steel balls on which it runs be kept in the same relative position not creering at any stage of the journey The geared ball retainer above referred to keeps the balls at an equal distance from each other making the carriage easy moving yet firm to the extent that even at its extreme limit of travel it is rigid and unchakable an important feature, as the carriage regulates the type impres sion on the paper. Here too the system of ball bearings perfects all the movements and ensures each letter in its place

Another feature of the machine under notice is a dence for preventing the battering of the type Olyen an operator will sink always and the same time forcing into the pricing centre one typelar aguint another. A projecting beef on the back of the typelar perents his effect of the typelar period, but the typelar following is at one yet once, by the typelar following is at one yet once, by the typelar following is at one yet once, by the typelar following is at one yet once, by the typelar following is at one yet once, by the typelar following is at one yet once, by the typelar following is at one yet once, by the typelar following is at one yet once, by the typelar following is at one yet once in the typelar following is at one yet once in the typelar following in the type is effectually prevented and a clean cut impression insuired lititation of a shows how two typelars come creciter at the centre without in ry to the type.



Fig. 5
Two printing positions of the bl-chrome rishes,

as well as the steedit throw-out, are controlled by a key pieced in the key-board at the left of the tabulator spacebar. By the simple manipulation of a key, either coloured the ribbon may be used, or the ribbon may be used, or the ribbon may be used, the ribbon may be used as the ribbon of the ribbon of the pieced where the type cannot toole it, so that aduptioning steeding any be cut. The ribbon can be put on without tools of any kind, and without soling the hands. It reverses automatically, without increased tension or strain. Like the tabulator, back-spacer and other devices on the machine this part too is inbullit and it forms a part of the methods itself.

With regard to the typedar gaids, its object is to present evil due to vibration when two or more typedars are forced to the centre together and collide. As attention on that typedar enters the gaids, just before the type impresses the paper, making blaring or reregular spacing inpossible. The typedar guide is also a safe-guad against another all vibrations or jamming of typedars. List we not the devices on the other parts of the property of the property of the property of the typedars. List we not the devices on the stepts operator, but the average operator and persons, to do cool work.



A MECHANISH BOOK.

Mr. P. K. Ramasuw 19er, A. C. I., of 10, Explanade Row, Midre, has just published a very hard bootles for the use of operators and owners of Typewriting machine. The booklet deals extensively with the mechanism of the L. C. Smith & Brox Typewriter which are now largely need in High Schools, Colleges and various other-Mercantils and Government differs. The book is priced only 3 As. and we would highly recommend it to all propie intersted in typewriting.

COMMERCIAL SCHOOL AT BANDALORS.

The Government of Mysore has sanctioned the opening of a class in the Commercial School at Bangalore to teach printing. The hours of attendance will be made convenient for the class

of pupils that may seek admission to it. The Supernlendent of the Government Press has instructions to inspect any prisate press welcoming his seristance, and to offer suggestions in view to improving each establishments. The Government are also prepared to consider the question of providing for higher instruction and training in the several branches of the Art of

OXFORD DIPLOMA IN COMMERCE.

At last even Otford University has paid house to the commercial age by receiving to establish a diploma "suitable for persons intereding to pursue a bosiness career," though the visiting was only 35 as against 26 on the other side. Mr. P. E. Matheson, Fellow of New College, moving the adoption of the preamble to the states, and

In the last few years there had been increasing demands upon both Oxford and Cambridge for men who had taken a University course for business. A University education alone was not going to qualify a man for business, but it was hoped that for a certain number of men it was desirable to make the study of economics and political science such that when they got to their business they might look mon it in a proper way and with some scientific knowledge of the groundwork on which it was based. It was thought proper that there should be some scientific study of the principles of banking, accounting, and the law of contracts, and also for a diploma of this kind that the student should be familiar with at least one modern language besides his own-A course of the kind was substantially a course which would give a man a really liberal education for the two years in which he was engaged upon it, and would give him a good deal of information on entering the business world.

The President of Corpus (Mr. Case) strongly opposed the motion in a speech in which be dreaded that Oxford might eventually become a revolutionary body and expressed his strong disappears of a single speech of the strong stron

Reviews and Potices.

ENGLISH HISTORY, ILLESTRATED PROM ORIGINAL SOURCES, 1715—1815, BY H E. ICELY, M A. (A & O. Black) 2s

This is the latest volume added to the excellent series of "source" books in English History published by this enterprising firm Every History teacher of the present day feels the necessity for these supplementary reading books to stimulate thought. to avoid mere memorizing and to make History teaching of the greatest possible value by inducing the pupils to take an active share in the process of working mental exercises The History of the 18th Century is so complex, materials available so abundant that the choice of extracts is very difficult. Nor is it possible to maintain the continuity in the narrative. The author has there fore rightly chosen only the more important of the events of this period and the extracts are concentrated on them from different points of new. Few or no reference is made to such leading constitutional facts of the period as the rise of the Cabinet Government, the development of Party System, etc. Even yet there are given in the extracts sufficient premises to allow of a reasonable and reasoning deduction. The present volume will be of creat value to teachers and punils of the next School Firs) Class who study the Hanoverian period for the apecial portion Extracts on the Character of the Three Georges, the South Sea Bubble, Burke's Estimate of Walpole as Minister, the Corruption of Parliament, Pitt in Opposition, Pitt as Orator, Pitt as Minister, the Revolt of the Colonies, the ' Pilot that weathered the storm," etc., are sure to make the subject, otherwise dull and monotonous, very interesting and the teaching attractive

The Jonion Regional Geography—The Berrish Employ with its World setting—of J B. Retnolds. (A & C Black) Is 4d

Mis J B. Reprofile has expend in the scholate of profession a reportation for the application of regional method to the teaching of geography in exhobit, though this particular presentment of the subject as chould though the such of Housernty trachers his Professor Hierbertson and Mr. Mickouler in the series of books entitled Regional Grographies be provides a scientific frestment of the subject set forth in a clear and attractive style who documented itself to the teachers and the target state. The chief feature in her book is that the area under duculosing in first dirided clearly into its

natural regions and the results of peoplerhical conditions which characterise each are then loose cally deduced. We have seen several books on the British Empire, but what marks out the present volume from the rest in that in the present rolume is presented an outline sketch of the rest of the world This is of great value to form a true concention of the Geography of the Empire The geography syllabus which confines its attention parely to the British Empire deserges to be condemned outright Canada for eq. is no geographical unit With a general view of the whole of the North American Continent it is much easy to understand fully the various geographical phenomena of this portion of the empire. The 'world setting' that is presented in the book will enable the rupils to link together the various portions of the Empire in a manner that is difficult when each portion is treated as an isolated unit. The value of some of the British possessions. especially the smaller ones depends mainly on their position with regard to various countries and cannot be rightly appreciated without some knowledge of their surroundings The Empire's commerce to extensive and a knowledge of the chief producing regions and markets of the world is in consequence necessary and a book which attempts all this in a short compass ought to be welcome to teachers The book is profusely illustrated and contains a very large number of mana and diagrams

A HANDOOK OF GEOGRAPHY, BY A J HER-BRETSON, M A, PE D, Vol 11 (T. NELEON A SONE). 44 61

When reviewing the first volume of this book in the July (1912) number of our Review, we pointed out that that book supplied a long felt want of a work intermediate between the ordinary Flementary school geography and such standard works of reference as Dr H R Mill's International Geography. The present volume deals with Asis, Australia, Africa and America Throughout the book there is abundant evidence of thoroughness The physical features of each Continent as a whole is described fully and the description is also continuous to enable the student to understand the various parts of the skeleton before studying the errorlations and coverings of the earth's surface. The treatment is first regional and next colitical After a general account of the distribution of the et i-f el moute of each country, political divisions ar I descriptions follow Lesential facts and educattorally valuable elements are emphasized. The book is full of maps and diagrams, some of

which are published for the first time. These two volumes by Dr. Herbertson are sure to prove standing works of reference.

We are sorry however to note the volume before ne has some defects which it is hoped, will be set right in the subsequent editions. India is very meagrely dealt with and is out of date in some points. A book published in 1913 contains the Census figures of 1901. We have not yet got rid of Eastern Bengal and Assam. The information is what can be got from ordinary text-books on Indian geography.

In fairness to the author, we must mention that what is stated is thoroughly accurate Text-book writers and teachers of Indian geography will get many of their erroneous notions remirding Indian monsoons corrected after a careful study of this book. Speaking of south-west monsoon, Dr. Herbertson says: "From mid March to mid Jane a low pressure area forms over a region of increasingly high temperatures in Southern Asia. As it increases in intensity, the Southerly winds swirling into its centre are followed by the south-east trades which pass with a sweep of storms right across the Equator. These winds bring moisture from the Indian Ocean which they precipitate on all exposed mountain sides and on the plains at their feet from a great distance from them. The change to rain comes from 1-15 June. Cloudy rainy weather prevails till September. During the next three months pressure rises in Northern India and the retreat of the south-west monsoon takes place. These retreating currents and not the north-east monsoon curve over the Bay so as to increase the Madras minfall (October to December)."

We are amused to read that South India is one of the richest mineral regions of the world. We hope with the author that the use of electricity may lead to important developments. We note that in connection with iron mining and industry no reference whatsoever is made to the Tata Iron Works. We are not able to follow the anthor when he says that three-fourths of the people are Hindus or Brahmins and that " Trivandram is the capital of Travancore State wherein education is advanced for India."

OXFORD GROGRAPHIES-A GEOGRAPHY OF THE BRITISH EMPIRE-UT A. J. HERBERTSON AND R. L. THOMPSON. (CLARENDON PRESS). 24. 6d.

This book belongs to the series of Oxford Geographies edited by A. J. Herbertson, It opens with an account of the British Isles and nearly

half of it is taken up with the geography of the mother country. India is given less than 20 pages and the account given is very meagre and of an elementary character. Canada, Australia and British Africa receive fuller treatment. The treatment throughout is regional. Political divisions are also mentioned and described. The book is thoroughly up to-date and contains a number of maps in black and white. It is pleasing to note the historical summary in connection with some of the parts of the British Empire. It would have been extremely valuable if the author had devoted some sections at least to show the bearing of Geography on History.

CONSTRUCTIVE WORK-PEPILS' BOOK, SET II, COM-SINED WITH GEOGRAPHY AND HISTORY, BY ED. J. S. LAY. (MACMILLAN & Co). Book I-4d. Books II & III. 5d. each.

Messrs, Macmillan & Co are doing a decided service to elementary education by the publication of three sets of books on constructive work. There is also a teachers' edition of these books. How much would the Indian elementary school teacher profit by these books being adapted and rendered into vernacular languages! The constructive work suggested in these books is of an eminently practical character; the handwork is treated as a method and the exercises which are intended to supplement the work on the most modern and approved lines are not only closely connected with the objects to be found in every school but are calculated to train the child on truly educational lines to be active, intelligent and self-reliant. Part I of the book is closely connected with Geography. The first lessons deal with " Raput sketching." " Learning to sketch and to use the eyes" "Look about you every day," etc. The subsequent lessons deal with Boiles and distances, plans, measuring distances on the map, plotting walks, angular measurement, simple surveying, contour lines, studying globes and maps, thermometers, barometers, winds, rainfall, production and trade charts. The lessons are all carefully graduated and are on concentric lines. The books are replets with hints and suggestions to observe, to record and to construct. They are also full of apt and suitable illustrations. Part II of each book deals with English History. A number of very interesting and suggestive historical diagrams connected with each period are presented. It is intended that the children should without any guide lines cut out shapes from coloured paper and paste them in an exercise book kept for the purpose,

The exercises will be found to give excellent training for the hand and the eye, valuable for the teaching of facts and for recapitulating lessons. The teachers' edition is specially valuable as thelps to formulate and carry out schemes of manual work connected with the ordinary subjects of the school corriculum.

PRELIMINARY ARITHMETIC, DE AUGUSTUS BARRAC LOUGH, M.A. (UNIVERSITY TUTORIAL PRESS). Proce 1s 6d.

This is a well got up little volume of 216 pages and is intended for English papils of ten to fourteen years of ago. The book contains definitions, rules, worked examples and exercise and specially useful to candidate preparing for such examinations as the Preliminary Cambridge Local and provides enflictent work for the pass standard is practically on no value but an intelligent teacher of a Lower Secondary School will find ample in formation for the teaching of arithmetic in his class room. The book will also be a valuable and ton to the Library of the School. We congrate late the printers on the excellent finish they have given to the hittle volume.

JUNIOR ABITHMETIC (WITH ANSWERS) BY R H.
CHOPE, B A., SAVENTH IMPRESSION (THIRD
BUTTON) REVISED AND EVLANGED, (UNIVERSITY
TOTOBIAL PRESS) Press 2s 6d

This volume of 393 pages is meant for the Junior Forms of English Schools and is an abridg ment of Mr Workman's 'The Tutorial Arithmetic' The difficult portions of the higher work are omitted but the order of the chapters and the method of treatment are same The book covers the whole field of arithmetic and also contains chapters on Approximation (contracted multiplication and division) Algebraic symbols (simple equations and problems) and Graphical Arithmetic. The book will take a position among standard Text Books in Arithmetic for Indian Schools if it is only adapted for such use by the introduction of Indian Currency and Tables of Indua Weights and Measures As it is, it is invaluable as a book of reference to the Indian Teacher and his pupil, and as such deserves a place in the Library of every High School

A SCHOOL ARITHMETIC FOR INDIAN SCHOOLS, BY HALL, STRYENS AND SIMS (MESSRS MAG MILLAY & CO) Price Re 1 12 0.

This is a handy volume of more than 500 pages and as an edition of Hall and Stevens. * A School Arithmetic adapted to the requirements of Indian Schools by the Rev Andrew Sims, n.A. of the London Mission with the introduction of Indian Cerency and Tables of Indian Weights and Vasaures side by side with the corresponding British Tables. In the course of the work occessivy amples have been altered in accordance with the medical part of the work occurs of the work of th

The book 16 its present form can be safely used as a text book in any Indian High School. There are certain special features of the book which give it a unique position in the field of Arithmetic They are (1) The method of Ap proximation is carried further than has hitherto been attempted in any other text book of the kind (2) The method of Aliquot Parts (or Practice) is not made the subject of a separate chapter (d) Besides a separate chapter on Simple Graphs grapoical methods are frequently used especially in connection with Proportion and Variation (4) There is no formal treatment of Recurring Decimals or of the Cube Root Cubs roots that occur are determined by factorization or by the use of logarithms (5) The use of Four Figure Logarithms is fully explained and illus trated and Tables of Lognithms and Antilogarithms are supplied

We are sure that this book as at present modified will keep the foremost rank in the field for several years. The authors, Hall and Stevens, are well known to every school boy and the is a sufficient recommendation for the popularity of the present volume in Indian High Schools

GROMETRICAL OFFICS, BY A S PERCIVAL, M.A., M.B., B.C., (CANTAR) MESSRE LONGMANS, GREEN & CO) Price 4s 6d set

This is an excellently got up volume of 132 pages primarily intended for medical students as a test book on the subject of Geometrical Optics for their preliminary seventhic examination. The book also contains all the optics required by an ophthelmic surgeon and is also of some value to students of physics.

There are chapters on punholes and shadows, reflection and refraction at plane and spherical surfaces, and leases Methods, both analytical

and graphical, for the determination of the Cardinal and the Nodal Points of a thick lens, are fully explained and illustrated. There is also a reference made to Spherical Aberration. Though the book is not of much value to the mathematician it is we believe invaluable to those for whom it is meant.

TRE S. P. G. HIGH SCHOOL MAGAZINE.

The fourth number of the first volume is before ne and is particularly interesting, being a double number in commemoration of the 150th anniversary of the S P. G. High School and College. The editorial columns are full of comments on this unique event in the history of the College, In the article " Our 150th Anniversory" are found the Historical Resume and the interesting address of Mr. Stone who presided on the occasion of the anniversary and those who care to read these will readily concur that the institution deserves to be proud of a record of usefulness and prosperity for a century and a half. Den an Bahadur T. Desika-chargar, a deroted but uncetenfatious student of ancient South Indian History, has contribated a well-thought-out paper on " The Coins of the Cholos," which contains many new facts of an authoritative character. The article on " Seetha-the Ideal Woman," is a critical study of his paragon of virtue. The " Basket of Words" is continued in this number and there is good deal to amuse the reader on the word Doctor. Altogether this number maintains the high level of excellence of the previous issues,

PUBLICATIONS RECEIVED. GeometricalsOptics, by A. S. Percival, M.A., M.B.,

B.C. London : Longmans, Green & Co. Je 64.

George Eliot's Silas Marner, by T. Cuthbertson Jones, B.A. Bombay: Oxford University Press. Ro. 1-8-0.

Preliminary Chemistry, by H. W. Bausor, M.A. London: University Tutorial Press, 2s. 6d.

Will the Brahmo Samaj Last, by P. C. Mozoomdar. Calcutta: The Brotherhood, 82, Harrison

The Children's Shakespeare-Scenes from Julius Cæsar, London : Macmillan, 4d.

Piers Plawman Histories, Junior Book No. 1, 94.: No. II, le ; No. III, le 3d.; No. IV, le 6d.; No. V. 1s. 8d. London : George Philip & Son, Ltd., 32, Fleet Street.

A General History of the World, by Oscar Browning, M.A. London : Longmans, Green & Co. (Edward Arnold), Se. .

____ Indian Educational Hotes. MADRAS.

Orders Educational.-The Government are pleased to sanction a grant not exceeding one-half of the actual expenditure nor Re. 4.000 towards the cost of construction of two blocks of dormitory and relectory rooms attached to the R. C. Boarding and Training School, Trichinopoly, subject to the following conditions :-

- (1) that in carrying out the work the angertions of the Chief Engineer in his note are adopted; and (2) that all the conditions prescribed in the Grant-in-Aid Code have been duly complied with.
- 2 On the above conditions being fulfilled the grant will be paid as funds become available.

The Government are pleased to sanction a grant not exceeding one-ball of the actual expenditure, nor Rs. 4.375 towards cost of the certain exten-sions and improvements to Rt. Joseph's Industrial School, Tindivagam, aubices to the following condi-(1) that in carrying out the work the sug-

- gastions of the Coief Engineer in his note are adopted and (2) that all the conditions prescribed in the Grant-in-Aid Code have been duly complied with. 2. On the above conditions being fulfilled the
- grant will be paid as funds become available.

The Government are pleased to sanction a grant not exceeding one-balf of the actual expenditors, nor Rs 7.229 towards the cost of construction of a third storey to the building occupied by the S. P. G. High School, Trichinopoly, subject to the following conditions -

- (1) that in carrying out the work the auggertions of the Chief Engineer in his note in G. O. No. 616, Educational, dated 12th November 1910, are adopted; and (2) that all the conditions prescribed in the Grant-in-Aid Code have been duly complied with.
- On the above conditions being fulfilled the grant will be paid as funds become available.

The Government are pleased to senction a grant not exceeding one-half the actual expenditure, nor Rs 12.759 towards the cost of construction of

- building for the Ganapathi Secondary School, Mangalore, subject to the following conditions -
- (1) that in carrying out the work the suggestions of the Chief Engineer in his note are adopted, and (2) that all the conditions prescribed in the Grantin Aid Code have been daily complied with
- 2 On the above conditions being fulfilled the grant will be paid as funds become available
- 3 The Government approve the action of the Director of Public Instruction in permitting the school authorities to purchase the site in anticipation of the sanction of Government to the grant.
- The Government are pleased to sanction a grant not exceeding one half of the actual expenditure nor Rs 4,800 towards the cost of construction of an additional building for the High School at Gopala-samudram, Timesevilly district, subject to the following conditions:—
- (1) that in carrying out the work the suggestions of the Chief Lugineer in his note are adopted, and (2) that all the conditions prescribed in the Grant in Aid Code have been duly complied with
- 2 On the above conditions being fulfilled the grant will be paid as funds become available
- The Government approve the proposals of the Director of Public Instruction for the distribution of the special grants of four lakes and Rs 30,000 for the equipment of secondary and elementary schools, respectively.
- The Government are pleased to delegate to the Principal, Government Training School, Rajahmundry, the power of exempting candidates for admission to the school from the age limit prescribed by rule 114 (2) of the Madras Advantageal Rules
- The Government are pleased to sanction a grant not exceeding one-half of the actual expenditure nor Re 7,400 towards the cost of construction of wardsn's and servants' questress statehed to the American College, Madura, subject to the following conditions:
- (1) that in carrying out the work the suggestions of the Chief Engineer in his note are adopted and (2) that all the conditions prescribed in the Granting And Code have been duly complied with
- 2 On the above conditions being fulfilled the
- Under section 21, sub-section (4) of the Indian Universities Act 1904 the Governor in Council is pleased to anothen the forther shibition to the University of Madras of the Madras Christian College in Branch I-Mathematics—of the B.A (Ronours) degree course

- The Government are pleased to sanction a balf grant not exceeding He 7500 to the Minnerpal Connol of Salem towards the cost of providing the local college with a beat! The amount will be met from the balance of the lump grant of 225 lakes sanctioned by the Government of India in Finance Department letter No 228 F, dated 18th July 1912, under 22, Education for boately
- 2 The Accountant General will be requested to place the amount at the disposal of the Municipal Council before the close of the current year

The Government are pleased, as a special case, to sanction a grant not exceeding Rs 6900 nor the difference between the actual expenditure and the contribution of Rs 5000 promised by the management towards the cost of construction of a hostel for the Christian students of the Noble College, Misulipatam, subject to the following conditions —

- (1) that in carrying out the work the suggestions of the Chief Engueer in his note are adopted, and (2) that all the conditions prescribed in the Grant in Aid Code have been duly compiled with
- 2 On the above conditions being fulfilled the grant will be paid as funds become available

Under section 21 sub-section (4), of the Indian Universities Act, 1904 the Governor in Council is pleased to sacction the further affiliation to the University of Madras of the Central College, Bangalore, in Group (ii B)—Chemistry—of the B A Degree (Pass) course.

The Government are pleased to sauction a grant not exceeding Rs 31 (82 towards the cost of constructing the Coles Memorial Students Home and Boarding School, Kuracool, subject to the following conditions:

- (1) that is carrying out the work the suggestions of the Chief Engineer in his note are adopted, and (2) that all the conditions prescribed in the Grantin Aid Code have been duly complied with
- 2 On the above conditions being fulfilled the grant will be paid as funds become available.

The Government are pleased as a special case to sanction an additional grant of Re 1,442 towards, the cost of construction of a building for the St, Mathias' School, Vepery, Madras

In the circumstances represented by the Director of Pabli. Instruction the Government are pleased, as a special case and in modification of G O Na. 935. Educational dated 12th November 1918, to sanction a great of Rs. 17 500 or one ball of the actual expenditure, whichever is less towards the cost of construction of a building for the Jinda Ingle School Ambasamulram. Thus grant is sub-

ject to the conditions laid down in the Government Order quoted above.

In the recommencers stated by the Director of Public Instruction the Government are pleased to increase the maximum amount of the great sectioned in O No. 815, Educational, dated 20th November 1911, towards the cost of constructing a building for the Atjanna in MoBid-Abst-riess Tree Office and Industrial School, Madras, from E. B. 15,004 or one half of the actions arguediture.

The Government are pleased as a special case to another a great not exceeding one half of the actual expenditure, or Rs. 18,837, towards the cost of the heat allowed been Madora, and of the proposed improvements and additions thereto subject to the following conditions:

- (1) that in carrying out the proposed work the suggestions of the Chief Engineer in his note are adopted; and (2) that all the conditions prescribed in the Grant-in-Aid Code have been duly compiled with.
- On the above conditions being fulfilled, the grant will be paid as funds become available.
- The Government are pleased to sauction a grant not exceeding one half of the actual expendions or Rs. 29,050, towards the cost of construction of a building for the Ford Girls High School as Trichinoply, subject to the following conditions...
- (1) that in carrying out the work the suggestions of the Chief Engueer in his note are adopted; and (2) that all the conditions prescribed in the Grantin-Aid Code have been duly complied with.
- 2 On the above conditions being fulfilled, the grant will be paid as funds become available.
- In paragraph 62 of the Report on Public Instruction in the Madras Presidency for the quinquennium 1906-07 to 1911-12 which dealt with the Recondary School Leaving Certificate Scheme, the Director of Public Instruction observed:—
- . Take his opportunity of expressing my hope that heads of clingers and offinish will conoperate with Government and the Department in the reform of secondary admission which is in progress by made accepting any certificate which does not affind evidence of proper attention that my been paid to mechanical or proper attention that my been paid to mechanically the secondary to associate whether a credible for Government service post-service my the hancoage of the Public Service Novilez-ron, 'sofficient knowledge of the quidness publicut.'
- 2. Too particular attention of all heads of Departments will be drawn to this appeal for up-operation with the Director of Public Instruction in his efforts.

to ensure adequate recognition of the school work doos by holders of leaving certificate. It is a cardinal feature of the actual of the man of of scondary school-leaving certificate to attack value to the character and result of a boy's entire school carer in preference to the bare record of his success at any single examination.

Madanapallee Teachers Conference.—Fortendays from the 19th ultima vacation classes were organiron the 18th dition vacation classes were organised for the benefit of the Elementary School teachers of Madanapallee, Vayalpad and Panganar Taluks, by the Sub-Assistant Inspector of Schools, Madanapallee Range, Mr. K. Alwar Chetti with the encouragement of the Assistant Inspector of Schools, Chattore District, Mr. Regbunatha Chori and with the help of the Supervisors. These classes were held in the Madanapalles High School premises. Much useful instruction was imparted to the teachers on various subjects such as Vernacular, Prose, and Postry, Surveying, Civics, Hygiene, School Gardens, Postry, Surveying, Civics, Hygiene, School Garcelle, School Museums, Geography, Kindergarken, Arith-metic, Manual Work, Paysiology, Official Correspon-dence, the use of Grammar and Stories and action songs, Object Lessons and Pictures Much interest was roused in the teachers by the most impressive and exhaustive lectures of Mr K Alwar Chetti. Mr. Vavilkulam Subba Row, Presidency College Telugu Pandit, was requested to deliver a lecture to the anus, was requested to deliver a secture to see teachers on the necessity for religious and moral instruction in Schools. The meeting was presided over by Mr. Nemall Patashurams Bow, 24. cs. Deward Cochie on the 28th ultimo Mr. V. Sabba Deward Cochie on the 28th ultimo Mr. V. Sabba Row brought home to the minds of the andience that without a deep love for the Vernacular literature there could be no love for the country, nor love for one's own religion. His lecture was most erndite, interesting and impressive and abounded with quotations. He made a powerful plea for Vernacolar study and showed how the modern style tended to degenerate, disfigure and discourage all love for Vernacular literature which simply tolled its death knell. He most pathetically appealed to the audience not to kill Veroaculars and thus bring ruin upon the country and themselves and the jet unborn generation. The Chairman endorsed the opinion of the lecturer and explained how every attempt was being made to arouse interest in and to review vernacular study in all its pristine purity and force.

One of the most interesting and editying features of thus Conference was the part placed by the Gordonian Ream Schlichter of Vayapad Though and the Conference was the part placed by the Gordonian Conference of the Conference of the Conference of Civics, Vernacolas Grammar, Hospitals, Police Amministration, Lyaglut, by mean of shorts toric of interesting dramma accompanied by arest conference of the Confer

The vication classes were brought to an end on the 28th ultimo by valedictory speeches delivered by a number of visitors on the importance of the teaching profession. A History Professor —Mr Saunders MA, of the Chicago University has been appointed as History Professor of the American College, Madura Professor Saunders is said to be a main of high qualifications in History and is expected to arrive about the 1s of September.

Opening of new subsolt—The Impector George Medica, has recommended the popular of 1st new primary schools at a cost of 12 Cape of 1st new primary schools at a cost of 12 Cape of 1st new primary schools at a cost of 1st opening of additionances for the teaching of music and needle work in prits schools at a cost of Re 19494 annually, the opening of Examinad Dipper Secondary classes in the Angle-Vermander School at Decisional teachers for Primary and Middle Schools at a cost of Re 2400 per annum and the establishment of a central Bardeng School for Pecchamis students at Myserica an experimental measure at a cost of Me 4000. The whole of the Education Geometries of the 4000. The whole of the Education Geometries of the superior of the superior of the superior of schools of the decision of schools of the superior of schools of the School School of the School School of the School of the Education Geometries of the superior of the superior of school of the Education Geometries of the School of the Education Geometries of the School of the Education Georgian Cape of the School of the Education Geometries of the School of the Education Geometries of the School of the

Tiruvallur High School Day - Speaking a few days ago as Chairman of the Tiruvallar High School Day, the Hon Mr V S Srinivasa Sastri made an interesting suggestion that old boys meeting to gether should think of improving the school under whose roof they met It always struck Mr Srini vasa Sastri as an imperfection in the arrangements that no machinery was provided for interest ug old atudents in the welfare of a school He had known some really useful ideas come from those actually unconnected with the management of an institution Old boys who were connected with other schools might-advantageously be consulted on points that turned up now and then in connection with the management of their old school. They would in most cases be act tated by love for it and not by un worthy jealousy And on the annual school day, according to Mr Sastri s excellent suggestion there should be a small conference, an intimate con ference with every guarantee of the proceedings being confidential consisting of the management the staff, and the more influential among the old boys to thresh out the more important problems and to suggest the necessary reforms.

Hazmajpe High School —A correspondent writes from Udenshpets —The price dustribution to the students of the Board High School Udenshpet to the students of the Board High School Udenshpet IUS, presided There was a large gathering The function began at \$15 r x with the reading of the report by High T Konbramm it the Hadmajor High Property Bull of the Property Bull of The Company of the Property Bull of the

examinations and that is had also affected advarsable the financial position of the school. The prizes were given away by Mrs. Hemingway. Mr. Hemingway is the school had not the whole done well considering the school had no the whole done well considering the disadvantages from which it had been soffering the school had no the whole done well considering the individual to longer the institutions where they had received their rediments of culture but to take a nestric interest in its fature welfare. He sho pointed out he great necessary there was for a good fundents. Bostel in the town and he called upon the gentle map present to interest themselves in the matter map present to interest themselves in the matter map present to interest themselves in the matter map present to interest themselves in the matter. He and Mrs. Hemingway proposed by Khu Rabador Abdul Running Sohle.

Education in Anaptapur -At the instance of the Local Sub Ass stant Inspector of Schools and with the sanction of higher authorities & Confer ence of Inspecting Officers and Elementary School Teachers was held for five days from the 20th May to the 30th in the Edward Coronation Hall under the presidency of Mr Herbert Champion BA, In-pector of Schools 3rd Circle It was attended by all the Sub Assistants and Supervisors and more than 200 Elementary School Teachers of the Ausntapur and Gooty Ranges A carefully well arranged programme of work including the expla nation of syllabuses according to standards lectures on teaching and model lessons by the Inspecting officers was gone through One of the special features of the Conference was the systematication of the work of teachers of various classes in con nection with the teaching of various subjects under tle scheme of studies prescribed for Elementary Schools and in accordance with local requirements Judged from the attendance, the substantial work done, and the enthusiasm manifested by the assembled teachers the Conference was an unqualified success for which much cred t is due to the indefatigable energy of the Local Sub Assistant Mr R Krishnsawami Iyengar and the interest evinced in the matter by Mr P Ramannjachari the Assistant Inspector of Schools and the co-operstion of the other Sub-Assistants especally Mr H G Krishna Rao of Gooty The preceedings were brought to a close by a few words of advice by the President who also highly complimented the Local Sub Assistant for the excellent work of a practical nature he had done towards improving the quentity of instruction imparted in Elementary Schools in Apantappr District

Education in Kandukur—For ten days last month the local Sub Assixual Inspector of Schools Mr H Ramachar Ra LT, "flictedly conducted the vacation classes for all the trachers in Asandakur Talok sim lar to the one he arranged last year for the scheres in the Kanog or Talok They were held in the premises of the Beard Higher Grade Liemaniary School there and were attended by over 100 teachers.

from Board Aided and Unaided Elementary Schools. They were the first of the kind in this range. The Sub-Assistant Inspector with the assistance of the local Supervisor imparted much useful instruction to the teachers on the nest and correct maintenance of the registers and methods of teaching the various subjects of the scheme of studies for Elementary Schools as well as on the framing of syllabus and the work to be done in the Teachers' Associations. Mr Ramacharwith his experience as late Headmaster of the Government Training School, Bellery, and with his present experience as inspecting officer, of the needs of village education, so ably conducted the classes that they appeared to be ministure training schools. The chief subjects dealt with were Vernacular, Space and Number work, Drawing, Elementary Science, general knowledge, recitation and drill, the utility of school garden and museum. In addition to lectures on these subjects, the teachers were made to work practical examples which were corrected by the Sub-Assistant, and his Supervisor. Model lessons were also given in Varnacular Prose and Poetry, general knowledge, etc. The chief feature of the lectures was the harmony that the Sub-Assistant introduced between the old indigenous method. and the modern methods of teaching

The Srirangam High School -The increase of sanction to Rs. 18,000 from Rs 10,000 granted by the Government of Madras to the Srirangam High School towards meeting the building charges has given universal pleasure to the Trichinopoly public. as this is a deserving institution which has quite a record of ample work done ever since it was started two decades back. It is very creditable that the institution has gathered round it a band of enthusiastic teachers who not simply content with their negal sphere of work have been striving their best to place the institution on a sounder and more permanent basis. Mr M. C. Rajagopai Naido, B a , L.T., the Head-Master has been doing very solid work in this way and Mr. S. K. Mathrubutham Iyer, the first Assistant, took a patriotic tour to Rangeon to collect donstions for the upkeep and improvement of the School. The school authorness have purchased a plot of land on which the school building is being built. It only remains to hope that the school will have the better support and good will of the local

magnates.

the foundation store and declared it well and truly laid. Lastly, the Collector made an impressive speech detailing the charities of the Horble the Raja of Dharakota and the exteem in which the Government rightly held him for all the works of generasity and charity for the people of the district

Guntur District Conference-The following Resolutions were adopted at the Guntur District Conference:—Mr. K. Venkatapayya, BA, B.L., of Guntor, proposed that the study of Vernaculars be enforced in all schools and solleges Mr. C. Venkatadri in seconding the proposition explained the grate of the Vernacular study in schools and that students never cared to study except with the object of passing the examination with a little translation. This was quanimously supported and carried. The next Resolution related to the undesirability of allowing candidates to write colloquial vernacular in the School Final Examinations sirce the Telago language differed in various parts of the Teloguage by Mr. V Ranga Rao, BA, BL, of Guntur. It was opposed by Mr. V. Lakehminarayana Pantula Garu of Contar. He said that it was bad to shut out the books prescribed for the School Final Examination However, the proposition was put to vote and carried by an overwhelming majority. Mr. K. Lakshminarayana Pantulu Garu epoke upon the necessity of sending a memorial to the District Board to establish a Lower Secondary School at Pedanandipadu village. The next Resolution adopted by the Conference was to request the Government to establish an Industrial School at Guntur. This was seconded by Mr. K. Venkatappayra and carried. The next resolution related to the re-establishment of Training Schools at Guntur and Rajahmundry. Resolutions relating to National Education, Local Self-Government, were then

BOMBAY.

Baroda Library System.—The Labrary System, which has noviced on with in Bacoda it to be forther developed. A new branch of 'Visual Instruction' is to beopened in connection with the Central Library Department at a cost of ten thousand rupes. The object of this scheme is to give the benefit of device the culton not only to those who can read but allow and expectally to those who can read but allow and expectally to those who can read but allow and expectally to those who can read but allow and of such by maste of the cinamotograph, the migliculation and the stereoscope.

Indian Actuary and Anditor.—We are glad to 'neare that Mr. Manshee M. Tambe, a graduation Arts and Engineering of the University of Bomber, has passed Parts I and II of the Institute of Actuaries examinations and has become an Associate of that institute.—He served for three parts an Articled Clork to Mears. K. S. Ajgra and Coq.

a leading Firm of Auditors in Bombay and then proceeded to England to sit her the examinations He passed the Intermediate and Final Examinations of the Society of Incorporated Accountants and Additors standing first in the Honours Division at the former examination. He took a first class in Part I of the Actuarial exam nation and acquired practical actuarial experience by working as an apprentice for a year in the office of Mr. and George the consulting of the Bombay Life Insurance Co.
Ltd. Mr. Tamba has now become an Associate of the Institute of Actuaries as well as an Associate of the Society of Incorporated Accountants and Auditors London He is the first and only Indian, if not the only person in India, who is both an Actuary and an Incorporated Accountant We trust his example will be followed by other Indian graduates

Growth of Schools - Evidence of the gradual growth of schools in India is provided in the quinquennial report (1937-12) of the Bombay Presidency just published. From this it appears that the total number of educational institutions of all kinds in the Presidency rose from 13,967 to 16 460, while the number of pupils increased from 720,547 to 922 877. The latter figure represents 3 4 per cent of the total population of the Presidency and 2 27 of its population of school-going age the corresponding percentages at the commencement of the quinquennium being 28 and 189, respectively Secondary echools now number 559 with an attend ance of 74,601 scholars, as against 517 with 57,993 scholars in the case of primary schools the advance, as might be expected, is more marked, the number of such schools having risen from 10,483 to 12703, and the figures of attendance from 579 629 to 757,130 During the five years the total annual educational expenditure, both direct and indirect, from all sources, rose from Rs 1.06.43 000 to Rs 1,36,17,000, an increase of 28 per cent. Of the latter amount, provincial revenues contributed Rs 53 98,000, as against Rs. 43 98 000 at the beginning of the period. The total expenditure from all sources on primary education in Bombay is now 58 iakhs Towards this, provincial revenues contributed nearly 23 lakhs, mostly in the shape of grants to Local Boards and Municipalities

CALCUTTA.

Education in Bengal —The following Notification is published in the Obligation Genetic Committee was appointed in 1911 as an experimental to the Director of Public Instruction, Bergal, in the selection of drawing books for use in schools and in regard to any other matters tooching on Art in which the Director matters tooching on Art in which the Director in Department is concernieducing the Committee of the Committee of the schools and colleges and of the collivation of the

artistic sense of studer to has recently come under the consideration of Government His Excellency in Council, while recognizing the value of the services rendered by the Art Committee in this direction, is nevertheless of the opinion that its nuefulness would be greatly enhanced by an extension of its hitherto comparatively limited powers and functions It has therefore, been decided to strengthen and enlarge the Committee steelf and to entrust at with increased duties and responsibilities. The Governor in Council is accordingly pleased to direct—'a) that the Committee shall be styled the curect—at that the Committee shall be styled the Art Advisory Cummittee and shall be constituted as follows —President, the Principal, Calcutta School of Art Members—The Principal David Hare Training College, the Inspection of Schools, Presidency Division, the Inspectives of Schools, Presidency and Bardwan Divisions, the Vice-Principal, Calcutta School of Art, E Thornton, Esq. Fall, Ba, and N Blount, Esq nominated by the Art Gallery, Baby Gaganendra Nath Tagore (b) that the duties of the Committee shall be to adrise the Director of Public Instruction in regard todrawing books for use in schools, curricula for instruction in Art whether in special institutions or straction in Art whether in special institutions or in s-hols and colleges for general education, the general question of Art teaching in Bengal. The Committee will in the first instance hold office for two years. The Director of Public Instruction is requested to report each year on the measure of ancress attained by the Committee in performance of the duties entrusted to its charge. If any vacancies occur on the Committee the fact should be brought to the notice of Government for necessary action

North Bengal Literary Conference — At the string of the North Bengal Literary Conference Babo Sacendranath Ray Chowdhury submitted report for the last year. Babo Josepadra Chandra the strength of the last year had been considered by the strength of the strength of the last year had been considered by the Conference could not sit during the Faster Alwhoy Babo amonumed that the Oxford Parts of which two parts will be devoted to Bengal The Varendra Research Scorty have been saked to write these two parts. The amonumented was reduced to the strength of the

Historical Society—Lecturing before the East Indian Association, Mr. Whomic Orreld regretated the suspension of the advirties of the Calentia Historical Society, and the case less drain of the members to Espland. He advocated the formation in London of a Calentia Historical Society, once of the chief works of which would be the preparation of a comprhensive bistory of the premit: city of India;

also the exection, sother on the Surrey side of the Thomes, or on the site of the Crystal Pelare of an Iodian Hall and Moseum absorbing the present loss as front Kensongton. The fact of Iodia belog of paramount importance to the Empire needed to be brought home to Invadence. Mr. Charles Buckland, while favourable to the proposals, pointed out the financial and other difficulties of the scheme

Seal's Free College -The prize-distribution of the Seal's Free College to the merstorsone students came off very recently at the College premises in Halliday Street. There was a large attendance of noted gentlemen of the town The take the following :- The school has kept in view the cardinal object of imparting sound education to the boys. Its chief aim therefore is to sesist the struggling poor and the middle classes in the education of their sons. The text-books accordingly are indicapely selected and preference is given to cheap and meeful books The school mainly aims at instilling a teste for literature and art, and developing both the moral and intellectual faculties of the atudents. The members of the managing committee, though they held but a few meetings during the year under review awing to the death of their late President Babu Nobin Chand Burat, bare all along a great interest in the regular work of the school. The work of the lower classes is constantly supervised by the senior teachers, and great attention is paid to the teaching of each individual boy in the class. and to the formation and development of good habits and moral character Half-yearly and annual examinations are held and exercises are given every week in the first four classes. The answer papers are carefully corrected, marked and returned to the boys. Marks obtained by them at the exercises as well as the results of the half-yearly examination are duly recorded and taken into account at the annual promotion when necessary Progress reports are sent to the guardians after publication of results of the half-yearly and the annual examinations. Guardians are requested to report to the teachers the conduct of their wards at home, their causes of absence, etc.

PUNJAB.

Delth Residential College.—In the course of the next three years. Stephenic College, Delth, under Principal S. K. Rudra, is to be re-organized our residential bears, and remover to the new Cover to St. Stephenic College will be limited to 200 residence with the control of the cover to St. Stephenic School The new St. Stephenic School The Encopsen and to Professors from Carlot and Combridge will be increased to eight, and the follows off to ten, and have on to weeker, and the control of the Company of the Course of

all be resident and in charge of the hostels, and most of the Indian staff will be in residence also. The Government of India have accepted the scheme put before them by the College authorities, and have placed at their disposal for immediate and have placed at their disposal to mark of building purposes one lakk of repects as a mark of that acceptance. It is hoped that an ample site will be afforded with large playing fields and the best sanitary and healthy conditions. The College will draw its resident sudents not only from Delhi, but also from the Punish and other parts of India. At present it will remain affilia-ted to the Punjab University, but there is a strong hope that in the course of time Delhi will be the sest of a Residential University. For that reason the new development of St Stephen's College which has been outlined above will be in accordance with the standard of the future University. Two new Professors, both first-class bonours men from Oxford and Cambridge, will join the staff of the College in October.

ALLAHABAD.

Primary Education in U. P.—The following are the names of the Mombers of the United Previous Primary Education Committee—Mr T. C. Figott (President): Mawers. B. H. Freemath. W. J. E. Lupton, G. A.O. Streadfield, E. A. Richaren (Official Mombers): Dr. Stender Lal, Blate U. R. Clarge Verma, Munsili Argher Ali Khenber (Basil Ramof Mertul, (con-difficially) and Mr. I. D. O. Elliud. Secretary, Mestings of the Committee will be held at Nuni Tal

Bulle Own Literary Cube —The second saniers sary of the above incarry Cibe was held to be compound of Babo Brahmanada. Slobe, near the Rahmanada Slobe, near the Rahmanada Singer in the State of the St

pays a silver medal to the member of the Club who stood first in his class in Indian Ristory This prize was won by Mr S O Sinha, The Chairman delivered a brief speech after the distribution of prizes in which he generally appreciated the sims and objects of the Club and wished every success to it. He advised the members to try to open a Labrary, as being most essential to a Literary Club Pt. Ram Charan Sokla thanked the Chairman on behalf of the Club and this brought the proceedings to a close

TRAVANCORE

Scholarship -Miss Vieyra, a daugher of the Chief Secretary to the Travancore Government is given a scholarship of £200 a year for four years, to go to Edinburgh and pass the M A of that Universty there Any student, after his public achool course is over, may join the University There is a preliminary examination in English Language a Classical Language and one part of Mathematics The papers for the preliminary will be of the stand ard of the Madras Matric so much so that those who have passed the Matriculation of the Madras University generally have an easy walk over in the preliminary Then the student attends a course of lectures in the subjects he chooses for his M A and passes in instalments. The student is allowed to fluish his course only in three years. Travancore already has got two or three Eduburgh M A's

There is a rumour that Mr Gopala Menon M A. Assistant to the Professor of Ristory in the Trivan dram College 18 going to be sent to Oxford or Cambridge for a course of training in History This would be quite welcome

MYSORE. Education in Mysore -The Government of His H ghness the Maharajah of Mysore have sanctioned the opening of 141 new Primary schools at a cost of close on Rs 23 000 per annum Sanction bas also been accorded to another proposal of the Inspector General of Fducation relating to the entertainment of additional teachers and to an increase in the pay of the teachers in Girls' Schools who teach music and needle work. This will involve an additional expenditure of about Rs 10 500 per annum Two other proposals made by the Inspector General and sanctioned by Government may be mentioned They are the opening of Canarese Upper Primary classes in the Auglo-Vernacular School at Davangere and the Government Canarese Middle School at Nanjan gud which will provide recruits with higher general culture to go forth as teachers for Frmary and Middle Schools The establishment of a Central Boarding School for Panchama students at Mysore as an experimental measure at a cost of Rs 4000 has also been sanctioned The proposal of the Inspector General, that a few

of the inspecting officers of the Educational Department should be dejuted every year to selected hormal Institutions to British India for such periods so may be necessary so that they may acquire an insight into the latest methods of primary education has been approved

____ Foreign Plotes.

GREAT BRITAIN

Indian Wranglers -There are two Indian wrange lers this year in the Cambridge Mathematical Tripos out of a total of 31 These brilliant young country men of ours are Mr R Chandra of the Labore Government College and Mr H Shivdasani of Finhinatone College Bombay Our congratulations on their distinguished achievement.

Parents' National Educational Union -- Lord Rearrhamn presided at the opening of a four days Conference of the Parents National Education Union at Carton Hall Westminster on May 5th In opening a discussion on a paper by Mr J St G Heath entitled " Education and Social Sympathy. Lord Beauchamp said be was never taught anything about social sympathy at school and he was afraid the same could be said of the pupils at the public schools of the country at the present time, He contended that there should be more education given upon the benefits of peace for instance. As time went on and as the circumstances of the world changed and became more complex there was an increasing need of peace. The teaching of philosophy that force and war were not only wrong but useless, was likely to sppeal to our present day men of action, and he did not think any one could deny that, when once it was proved to the business man that, war was bad for him he would be more I kely to listen to that argument than to the argument that war was to itself an evil Our education in see al sympathy should extend not merely to social sympathy which was national, but to one also which was international

International Congress of Students -The ninth International Congress of Students is to be held at Ithacs New York U S A from August 29th to September 18th of this year It has a strong com-mittee headed by Dr Woodrow Wilson the Presi-dent of the United States Students of all nations are invited for an interpational intercourse and frank discussion of ideals and experiences regarding their problems The object of this Conference is to promote a spirit of international brotherhood and humanify by encouraging friendship and mutual understanding between the students of the world Each national group will be an independent unit and students will be placed in correspondence with one another The delegates will visit several States and Universities of the United States, where they will be guests of Governors and others. In the end.

they meet at Westjagion the extincal catifal, where the President will hold a special cores time

Health in the Training of Children - Mr. M E Nad'er, lecturing at the Lords Descervity on John Licha among rates things, and that Licks was the first to law-is more the everetial importance of boolth in the training of theliene. He preveled that 'knowing to soming' and, therefore, the fremery of improvements from direct proprietes was a more is gainframen and raids aritanalis as sewer biggs maren ar marde mbirk attempent to t arry esperices at second hand. He maistanted that manual training and the learning of a trade should form pers of the edoration reed of store born to a row. persone. And, in the conversion that virtue is the Bret and most necessary of a man's and sweezes to made the secting of a simple forth to that and of the practice of prayer the fundamentals of early education.

Association of Read Teachers - Waverel important Beerfations were posed at the Annual Conforescent the National Association of Hand Tracture, which was recently hold. The morning discussed at length the proposed educational reforms to be instituted by the Government, Mr. J. W. Hills. Shefield, moved a Resolution hading with pend med estrifaction the public processes ments of the B and of Education and of the Land Charrellor with respitately by matera lauritan beargong of alteration so redinating all forms of educational off rea primary, becombary, and l'giversity; and expressing the opinion (i) that State secondary education on a different basis about he organized so as to affire facilities for properation for the technical industries as well as for academic purposes; [2] that each an adequate cumber of exhalerships in these econidary schools should be provided as to secure that every child capable and fitted to benefit by each securdary education should have the privilege of doing so; (3) that a system of maintenance echolarships should be established to enable children of poor parents to continue their education in such secondary schools; and (4) that leaving scholarships should be established to enable these children to proceed to the technical Colleges or to the Universities. He said the Resolution was formed with a view to providing driving force for the processie which Lind Haldane wished to bring before l'arliament. Referring to the scholarship question he re-marked that having g at their scholarship system is was a more mockery to offer scholerships to the poor boy or girl if, having received them, they were quable to take adventage of them through poverty. An amendment was moved to the clause relating to acholerships, to the effect that education should be free in all Municipal secondary schools in recent of Government grants Is was urged that only 5 per cent of the 600,000 children who lets elementary schools annually entered accordary schools. The amendment was rejected and the Resolution was

carried The question of Irreing up at illers regardless of the e attainments was introduced by Beter, Fluff eld, and the Conference instructed the Council to take into ementers'the at the serious preside opportunity the important and preside practice of many education anticrities of territor up a the premision of printers, regardless of their adarational attainments, and not only to bring the matter free, bly before the lipsed of Libration by a deputation, if previous but also to take every provide makes of emplanting to parents and the greered public the termist effects of sach article. The Council was further desired to urer upon the Brard of Education the destrobility of reducing as early as promitte the over of claramin primary actionly in order to secure the maximum amount of individual training On the proposition of Ric Compil, Bradford, a Resolution was passed arrest the solublut mort by statute of erhod of sice with dental departments, the tres to be deferred from the Imperial Factories

The late Alfred Austin ... The death is announced of Mr Allred Assita, the port lapronia. He was appointed by Lord Rainbury in 1906 some yours after the death of his predecessor, Lord Transpose, Mr Antho's apprentment gare rise to much adveres eriticion as a mach proster post, Sainberns, was passed over, it was believed because of his radical views Mr. Alfred Austra was been in 1833, and was thos 79 years all at the time of his death. He graduoted from London University in 1874 and was called in the har four years later. He practiced only for a less years and had never an intention of permanently remaining as the bar. On the death of his father in 1-61 Mr. Assis devoted himself to foreign travel and literature. When in Registed be generally lived in the resurtry. Among his portion works are "Randolph a Tale of Polish Grief." The works are Raddicks Takel Patis Grid. The Feature, The Ordick Age, Medonov. Chil-The Tower of Bibl.! The Heats Treeds, Feature Letter, Property of President Prince Lectics, Forestate to President Alfred the Great, Treetade Darlies, July Dow Cree Love. The Intellect Treeds, The Dow Millenting, are Stered and Dresdam, in spec-Austin also wrote a number of pross works, score which are 'The Gerden that I Lors,' 'Spring and Autumn in Ireland,' 'Ilamas of Auctent Press and 'A Lesson in Harmony

LITERARY NOTES

Four Poets' by Mr. Stopford A. Brocke. (2s. net) is a new volume in the 'Reader's Labrary'. The four poets are Clough, Mathew Arold D. G. Rossetti, and William Morris. The critical quality lends with eloquent appreciation. The author is a friendly guide for young men whose literary taste is forming.

Mr Fisher Unwin will have ready this month, inder the title of "Barma under British Role A Model Possession," an English edition of the work recently published in France by Professor Joseph Dautremer, of the School of Oriectal Languager, Parts formerly French Gossel in Rangoon The ranslation is by Bir James Goorge Sociit.

Towards the end of this month Mesers Chapman and Rail will publish a new work by Mr W B Lully entitled 'The New France' containing issues of studies written thirdy with theological showing bow the essential ideas of the great Bavolution are reflected in existing conditions on the Third Renublic

'Problems of Power' by W Morton Folierton (Constable 7s 6d. not) is a study of European Statecraft, from Ladows to Kirk Kinsee 'Thus work belps the crissen of the empire to follow current events intelligently

Bichard II. edited by Henry New Bolt (Claren don Press, 1s 64 net) is an admirable students edition of Shakespearos play with a glossary and introduction The reader will be delighted to look at the delicate hittle series of the plays

In writing the "Lafe of Mohammad (Christian Laterature boosts, 3s ned) the author, the Rev Canon Sell, has breaded some subjects at consider ship greater length than others, but scarcely any thing of importance has been overlooked. His statements of facts are based upon original authorities, and the deductions be makes therefrom are crewn in a far and impartial spirit.

Mr Werner Laurie will have ready this month The Correspondence of Goldwin Smuth 'selected and edited by his hierary executor and secretary, fir Arnold Haultan, who has added a biblio graphy of Ubidwin 'Bolla' various whitings. The correspondence includes letters from Lord Reachery, Mr Obamberlain, the late Lord Salabery, John Bright Gladstone, Peel and many other collectures

The fourth rolume of the late Dr Gardners Lollardy and the Reformation in England will be published by Messrs Macmillan shortly with a

preface by Dr. William Hunt containing an appreciation of the historians work in general, and of his Lollardy' in particular. The fourth volume, which brings the narrative to the death of Féward YI and the first year of Marya reign, was left by Garden's na undinhele state but her bear of the property of the property

A timely addition to shout to be made to the Cambridge Historical Series in a history of The Ottoman Empire, 1901-1910 through Miller Ottoman Empire, 1901-1910 through Miller War down to the armstone and conference in St. James e Flase, leaving "Graky once more what abe was in the first half of the fourteenth century—a purely Austic Power

Mr W Lyon Blease has written "A Short History of Engish Labersham which Mr Euber Unwin will publish during the present season. The book traces the progress of Libersham during the past traces the progress of Libersham during the past specches and latters with libersham of conwhich the governing classes regarded themselves and their subjects and the gradual modification of the prevaling ideas of these classes. Mr Elesas concludes with a chapter in which he disk with the chalters in mightanium gith by true Laberal cause.

Modern Grubb Street and other Essays' is the tilt of a collection of studies and sketches by Mr. A. St. John Adoock which Messre Herbert and Daniel amonance for early publication. Mr. Adoock treats of such topics as. The Latersty Life 'Poetry and the Pruble' 'A Gentleman of the Press' and the Pruble' 'A Gentleman of the Press' and Chock has given evidence of the stays and engaging a Modern Charles and Charles and Charles and Charles and St. Adoock has given evidence of the sasy and engaging in his latery to find a welcome from readers of a bookshi being to did a welcome from readers of a bookshi being to the contract of the contra

When Missar Walter Scotts shoprophical series of Great Writers first began to appear, as with the Nation beheves it was Oncar Wilder—dum seed the Nation beheves it was Oncar Wilder—dum seed the Onlines as a "great writer by littlemen". The same was thoroughly undeserved for many of the budger beheve were written by men of distinction and weight, and the series in one of the desired value of Series Wilder and Writings of Hastice Missar Wilder and Writings of Hastice Missar with the work of the part of Missar Complete of volumes on contemporary French and Belgian potity.

The Board of Education have just published a table of Summer Courses in England for the information of Education Authorities, teachers and sixdents. The table gives particulars of 27 courses, including three Summer Schools of Geography, seven courses dealing chiefly with educational handwork, elementary accesses and kindergarten work, one course in Child Study and the teaching of young children, one on the direct method of teaching Latin, six courses in various branches of agriculture and horticulture, and nine general courses dealing with several subjects

The Directors of the Encyclopedia Britannica have ad spied the excellent plan of bringing out a yearly volume (The Britannica Year Book) supplementary to the new edition of the Encyclopedia and designed to bring all its information as far as possible up to date. In the first issue just out possible up to date in the urst issue luss out there is a full and well-compressed article on India from the skilled hand of Mr. J. S. Cotton, who, as editor of the Imperial Gaseller is the most experienced compiler in England of Indian reference material. The article contains brief summaries of the Census, the Administrative and Political History, Finance, the Native States, etc Naturally the most interesting part is the section dealing with the political and social changes of the last few years. It is written, of course, with knowledge, and in general with great fairness, although now and again Mr Cotton permits himself to reflect the official tone and opinion especially in regard to occurrences connected with the unrest of the Minto periods.

The Cambridge University Press will abortly publish a study of The Municipalities of the Roman Empire, by James B Reid, Professor of Ancient History in the University of Cambridge The work is based on a course of loctures originally delivered in the University of Lindon and repeated, with some changes, in the United States, first as 'Lowell Bottores' in Bosion, and afterwards in the Columbia University, New York. The sections embracing the eastern provinces of the Romen Empire have been expanded in book form for the take of completences,

The Oxford University Press has in preparation The Oxford University Press has in preparation as now edition of Sir C. P. libert's Study of 'The Government of India,' to which a accord supple. mentary chapter has been contributed on the Coronation Durbar and its consequences.

Among the books to come from Messrs. Pitman best month will be a study of The Federal Systems

of the United States and the British Empire: Their of the United States and the British Empire: Their Origin, Natura, and Davelopment, by A. F. Poley, who shows how the creation of the federal systems of Ganada. Asseralia, and South Africa was inor Osmans, Abstractor, and Double Mirica was in-fluenced by the Constitution of the United States, and what the federation of the United States owed

It is understood that Mr. G M. Imena to jost flaished correcting the proof thea d biography of John Bright, and that the bot F

Lewis's Scientific Circulating Library, d. Gawer Street, Landon, W. C., besides splendid collection of modern medical and state books, includes all branches of and general technology, and it is classed every book of any importance in in the Library. The catalogue contact 11,000 titles of works. A

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St. Joseph's College Sports.

Their Excellencies Lord and Ludy Parties at aueir Excellencies Lord and Ludy Profess at Ompanied by an A. D. C., were press, the Anucal Combined Sports of the St. Junya Lord long and Cadets beld at the St. Junya Canal Wet weather prevailed, with a high wind blank in the St. Lord of temperature of the St. Lord of all the while. The programme consisted of the two events Of these the Club awing of the contract of the cont renier bys and the Swedish drill by the jester were gone through exceedingly well. From the set event, Lord Panish and the set was gone to be seen to be s event, Lord Pentland, along with the pulges feet the course the course, watched with keen interest, the dis-tibe course, watched with keen interest, a survival en: events The Babias rare particularly attract and both Their Ercellencies' attention. events were keenly contested and good sport at witnessed. The starters were Mesers.

kidd and Hackrit. The judging was done by Colonel Ward Captain Fitzgerald Captain Valentine Brown Brother O Farrell and Mr McGorick Throughout the alternoon the N V R. Band was in attendance. Lady Pentland presented the cups and prizes.

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London University Athletic Union Sports

The English Annual Sports Meeting of the University of London A thatice Union was bried as Stanford Bridge on May 22nd Tho meeting was favoured Bridge on May 22nd Tho meeting was favoured with fine westher the number of entrie was favoured with fine westher than oil recent years and the attendance also was much better A cup presented by Lord Rosebery the Chancellor of the University for the most successful Cullege was offered for competition for the tiret time in were the Birchbeck Gullege to the Child Topical Collines (You Gullins You Gullins You Gullins You and the

The performances of the afternoon were very satisfactory and two of the records for the meet ing were broken—the Hardles by Paget Tombinson

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SIR A. SASHIAH SASTRY, K.C.S.I., An Indian Statesman—a Biographical Sketch

BY

B V. KAMESVARA AIYAR, M A.

Pudukottai

Price—Rs 3

SELECT OPINIONS:

The Lordon Trice .- A well written his of this enlightened statesman and reformer undertaken by the request of the Maharajah of Travancore

The London Daily Area — This book contains many staries of the tact and judgments which earthef alm to fail the distance spot of adverse to an almost absolute monatch. A Novel Methe will do much to open the eyes of Discopens to Indian affairs as viewed from the native standpoint. The English of the author is almost perfect.

The Madron Mni (Londry)—" Mr Ameerara Aiyar has not only an excellent Englade style, but slue that sevential qualification of a longrapher, a due of estimations of raises in his treasure of the materials that he has collected. The result is in every way excellent. The life-integral of Sea Saish Saistry contains leasons for all of the Europeans and Indiana sites, and there is hardly, page of his hography which does not throw light on the problems which face is to-day. An Africa are the successfully some plus scarce:



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SCHOOL AND COLLEGE SPORTING NEWS.

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The London Times — A well-written life of this enlightened statesman and reformer undertaken by the request of the Maharajah of Travancore "

The Lendon Bully Near...".....This book contains many stories of the tact and judgment which coulded from to fill the eliciatic post of adverse to an almost aboutier monactor. A book like this will do much to open the eyes of Europeans to Induan affairs as viewed from the nature standpoint. The English of the author is almost perfect."

SBINIVASA VARADACHARI & CO., TRIPLICANE & ESPLANADE, MADRAS.

The Educational Review.

Every Viceroy, unless he happens to be a King Log, comes to India Our Vicerov. with a definite, clear-cut principle of administration to apply to Indian affairs. Lord Curzon's ideal was efficiency and efficiency he set about to secure, efficiency at any cost, efficiency though it cut millions to the quick and drove them into sullen discontent. Not that this single-minded devotion to the demon of efficiency was barren of results. Benevolent despotisms do bring about some solid good, witness the re-organization of our Universities and the creation of the Archæological Department. But in pursuing his ideal. Lord Curzon sowed the wind and left his successor to reap the whirlwind. Lord Minto presiding over our destinies during an outburst of elemental passions, when desperado had learnt the fatal lesson of coldblooded murder as a weapon of political retaliation, believed in the iron glove on the right-hand and the velvet glove on the left. When the storm is on, the only thing to do to strike down the masts, clear the deck and serve out strong drink to the able-bodied seamen. Repression tempered by concession helped Lord Minto to weather the storm. Then came Lord Hardings with a different Concessions are needed to rally round the moderates but they will at best benefit the articulate few; but they cannot touch the root of the evil. Repression, whatever its temporary value during crises, can nltimately breed but more discontent. No evil is remedied unless its cause be removed. The true cause of all evil in India, whether it be the political evil of discontent, or that root-evil of superstition which lies behind all our trouble is the appalling ignorance of the

people of India. Education, wide-spread education, and not repression nor concession, not reproof nor flattery, is the only potent red of Ammon that can charm away the evils that obsess the land.

obsess the land. Lord Hardinge, with the true vision that is accorded to the statesman that is born (and not made by family connections or self-made by blustering self-advertisement), saw that anarchism in politics, and anarchy in social organization and religious life can only be cured by the spread of knowledge. Hence when the deputation of the Indian National Congress met him on the 3rd January 1911, he said, "In the body of your address you refer to various broad questions effecting the welfare of the masses, which I can assure you the Government of India have entirely at heart. The realization of some of these proposals would entail a very considerable increase to the normal expenditure of the Government and would in all probability require new sources of revenue to meet it. The educational problem is one, however, the Government of India have taken in hand." It is unnecessary to enumerate here the various acts of Lord Hardinge's Government in the furtherance of education, for we have recorded and commented on them all in our columns. But it is worth while to realize how His Excellency has been constantly preoccupied with this one subject, for if all administrators and all public men realized this quite as well as the Viceroy does, the progress of education in the land will be much more rapid than it is. Speaking to the Muslim League, Labore, early in 1911, be said, "The goal is still distant when every boy and girl and every young man and maide shall have an education in what is best cake lated to qualify them for their own part in



life and for the good of the community as a whole. This is the ideal we must put before in. Hence how appropriate in the celebra tion of the Viceroy's Birthday—the children's day—throughout Iodia. by the very children whose adeaston and uplifting Lord Hardings

has placed in the forefront of his programme Speaking to the Muhammadans of Karachi, Lord Hardinge said, "A grave responsibility rests upon me to see that the efforts now being made are wisely directed, not only because I am the Head of the Government of India, but also because I owe it to my grandfather's memory to endeavour, as far as in me lies, to shape to the best ends a policy in the initiation of which he took so keen an interest" This noble heritage of the ideal "triumph of peace" is so prominent in our Viceroy's mind that he never omits to drive home into the minds of his heavers-and these are as much the officials as the non-officials-the necessity of the widespread of education To the Sikhs of Lahore he pointed out the value of agricultural education and the advantages of the Lysilpur College. To the Rajahs and Chiefs of the Ponish he spoke of the great adnostional work in Labore The fruits of this great trust in the efficacy of education have been many The Universities of Aligarh and Benares and the State University of Dacca have gone beyond the stage of mere projects and will very soon be opened They are mapired by the belief 'that the more such Universities are multiplied and distributed over India, the better will it be for the cause of Indian education" But the noblest prononncement of our Viceroy is contained in the following passage from his speech on the Budget of 1912 -" The sky is clear so far as the human eye can judge, and we are ready for our next advance. On what knes shall

we proceed, and for what goal shall we strain? To that question my answer is clear and unhesitating. We have secured the defence of the country We have removed our great handicap in international trade. It is now our duty to turn all our energies to the uplifting of our people. To that task we are giving freely in the Budget which you have discussed to day Init too much to hope that it will be the dominant policy of the coming years? The Finance Member told the Conneil of the hopes that rose in my mind when first I took charge of my high office By those hopes I still abide, and in them I am more than ever confirmed. It is only by the spread of knowledge and by the resolute struggle against avoidable disease and death that India can rise among the nations It is with this ideal that I sincerely trust our finances will remain in touch. The nath will not always be smooth. Funds cannot always be available or enthusiasm always fervid. but we have made a beginning and we cannot now turn back "

Yes, we cannot now turn back. but we can turn into bye-ways and we can mark time In our Presidency, during recent years there has been a noticeable shrinkage of Colleges and of Secondary Schools In the name of that very demon of efficiency that animated the soul of Lord Carzon many institutions have been given the quietus We do not plead for the multiplication of indifferent schools On the contrary, we have frequently bemoaned the terrible inferiority of our achools to those of Europe and America and bave given accounts of how they do it in those continents so that the enthusiasm of our school masters here may be roused. But the best way to deal with an inefficient school is to mend it and not to end it. If a school or college cannot

provide for the cound teaching of Physics and Chemistry, why not it be organized as an institution for the teaching of History and Geography? Why should it, instead, be reduced to a lower grade school, Similarly, if the Syndicate will not place obstacles in the way, how many second-grade colleges can be raised to the first grade, teaching one or two Branches-say History, Philosophy or Indian Languages, Nearly balf-of-our second-grade colleges can become first grade on these lines. because the increase of cost would be little. if the D. P. I. will give such institutions a slightly larger grant than now and if the Syndicate will give its sympathetic help. But the two 'ifs,' are two big 'ifs,' No amount of viceregal enthusiasm can accomplish much unless there is a similar degree of local enthusiasm not only for the increase of the efficiency of what education there is but also for the spread of what education is possible under present conditions.

Speaking of the curtailment of Primary Schools in Rawalpindi, Lord Hardinge said : "The spread of elementary education is a subject in which my Government takes the deepest interest, and I am glad to think that the additional funds we have been able to reserve for this purpose will be taking their course through the main provincial channels and their way down the district tributaries and help to fertilize the intellectual soil of Rawalpindi." In a recent issue we complained that these streams of Imperial generosity become divided and sub-divided on a mechanically conceived basis of statistice, so that individual streams become so lean as to degenerate into driblets that could do no one any good. Unless the Local Governments have a well-thought-out scheme of developing different kinds of schools in

different localities and employ these windfall from the Government of India in with that scheme, starting or aiding just tations as they are necessary, instead of ing as now an unexpected grant, in some case considerable, in others despicable, to every school and expecting it to be within a prescribed date on some education purpose or other, the Imperial streams will not serific have soil.

We cannot better follow up the above all too-inadequate account

The ideal of public education according to the British Science Guild.

our Viceroy's views on uplifting of the people India by means of tion than by giving a t

account of the scientific system of Nationa Education devised by the British Sc. Guild and published in a recent of Nature. We hope this note will a holy discontent in the minds of our with the present state of education in India The first requisite of education is for authorities to provide for healthy grow during infancy and throughout school in India, if you tell a Municipal Counci that this is one of his duties, he will you as a madman. The second is the solute necessity of manual work and rel practical exercises throughout the course of school instruction; in South Ind not even six schools provide for this. third is efficient public Elementary within the reach of all children and ance at school compulsory until the 14 : we may get this a' hundred . if we keep up the agitation started . Mr. Gokbale. The fourth is attendance Continuation schools for all . not receiving spitable instruction; in Ind we have not heard of Continuation

The fifth is suitable Secondary Schools available for all who can profit by them, the sixth is the institution of School Certificates as passports for Universities, and the seventh to give a secondary place to examinations as against school records, in South India, we are trying to secure this in a small measure. The eighth is the co ordination of technological work with University work, in India we have no technological work worth the name. The ninth is "Increased grants to Universities and other places of higher education for purposes of ensuring the reduction of fees for all courses, in India this is anothems. The tenth is the improvement of the position and conditions of service of teachers, this is a subject over which every one who is not a teacher sheds crocodile's tears and none does anything The last is the readjustment of the shares of the cost of education borns by the national Exchequer and by local authorities, so that educational progress may be made a national responsibility, in other words, next to public health, education ought to be the hist care of the State. This is exactly our Viceroy's position and would that others besides him realized this !

In Evening classes provision is made in London, for "tustion, at almost nominal rates, in all

Evening educa-tional work in stages of science, technol-London. ogy, arts and crafts, com-

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mercial enbiects, economics, and literature, in institutions from qualified well-compped teachers" The gross annual cost of this work is about £400,000 and nearly 200,000 pupils attend these classes, of whom 80,000 are that though the pupils , that attend these Scheme" have left it to the sense of honour

classes go there after a hard day's labour. tired physically and mentally, they show a very great eagerness to learn "The Evening student has less time for study. but he makes more effective use of it. He has practical knowledge that forms an excellent In many institutions evening students are doing work in their subjects quite equal to that required for a University decree." The work done there is so cond that the evening continuation schools are going to be thoroughly reorganized, they will be called "institutes" justead of "schools" The specialization of the functions of individual schools will be made to depend upon the social, educational and industrial demands of the districts of London where they are situated Their work will be brought into line with that of the higher institutions. such as the polytechnics and the unner institutes will be affiliated to the senior ones. Contrast this feverish anxiety in England for the spread of education with the shrinking of our secondary schools and with the state of our technical schools, which like appel's pisits are few and for between

The Director of Public Instruction in a recent communication The B Subjects wants employers of clerical labour who are Govern-Course ment officers and Principals

of Colleges to give due weight, in assessing the worth of School Leaving Certificates, to the entries under what are called B. Subjects. tiz, Elementary Science, Geography, Indian History, Drawing, etc. These are subjects which have to be taught in different ways in different schools One un form public examination is not desirable or possible in these subabove the age of 21 years. It is reported jects and so the framers of the "School Final of Headmasters to devise proper syllabuses in these subjects, arrange to have them taught in accordance with modern methods and to estimate the progress of their pupils in them by awarding marks. The circular of the D. P. I. implies that these subjects are being neglected in schools. We do not believe it is so; but if they are really neglected, the means above resorted to for compelling Headmasters not to neglect these subjects ought certainly to be objected to. External, indirect force, such as is exerted by examinations, is invoked by this means, a force which never did nor ever can do good. If the D. P. I. thinks that these subjects are not taught as they ought to be, a circular to Headmasters is sure to recall them to a sense of their duty. The Inspectors of Schools, too. can easily remedy the defect, such as there is, if during their annual visit, they call up for the syllabuses in these subjects, examine pupil's note-books, and get the teacher to give a lesson in their presence. The Inspectors form the only available lever for uplifting school work. But the great difficulty in this Presidency at present is the fact that one Inspector is a specialist in science and in his circle science work is well done but there is little enthusiasm for other things. Another is a good classic and so on. And just now there is no history and geography enthusiast on the Inspecting staff | Time was when as ex orienti luz. all wisdom flowed from one particular circle! It is high time, the D. P. I. arranged, as the Board of Education does in England, to issue detailed syllabuses, notes on methods of instruction, special reports, etc., and spide Headmosters and Assistant-Masters in their teaching work. At present the D. P. I. and Inspectors do much more office work, compil-

ing and rending up returns than this kind of educational work.

We teach in the science classes of on schools that nitrogen is Active nitrogen. an inert, inactive element Faraday wrote many years ago to a friend "What of nitrogen ? Is not the apparent quie simplicity of action all a sham?" and the Honourable R. T. Strutt, F.R.S., has after two years of patient and ingenious experi mentation proved that in this, as in man similar flashes of intuition for which Farada was noted, the great Victorian scientist wa perfectly right. At the Royal Institution Strott gave an account of his work. H passed a rapid stream of rarefied nitroge through a tube and sparked through the ge on its way by a series of high-tension electri discharges from a Leyden jar. The gas became visible as a whirling cloud of brilliant light, for at this stage the nitrogen molecules had split into single atoms. "Nitrogen atoms in this condition are uneasy, and are auxious to find partners again. But to do this takes time. The reunion of the nitrogen atoms is attended with the emission of yellow light." This reunion of nitrogen atoms occurs more quickly the lower the temperature. This is the only instance of a chemical action quickened by cooling. This monatomic nitrogen unites chemically with substances with which cold ordinary nitrogen will not combine. It combines with chloroform vapour and forms cyanogen. It unites with mercury vapour and forms an explosive compound.

Much good scientific work is being done at the Solar Research Observatory. The Kedaikanal Observatory. which does not come within the notice of the public, because there is

no scientific magazine in India to record

scientific research that goes on in India Mr Evershed has devoted himself among other things, to the visual and photographic observation of the frequency of prominences on the Eastern and Western limbs of the sun He has accumulated a vast deal of observations during the period 1904-1911 and examining them statistically and issued a bulletin on the subject. He has taken special precautions to eliminate the personal equation which introduces bias in the investigations He finds that there is a distinct predominance of frequency at the eastern limb, the average percentage of excess being 52 70 Similar observations elsewhere in the world confirm the accuracy of these results. But as regards the cause of this excess of prominences in the Eastern limb of the sun, the connection if any, between this and phenomena of the earth there is some vague speculation, but nothing certain known

THE LORD SYDENHAM COLLEGE OF COMMERCE, BOMBAY

We publish in this issue the regula tions, recently adopted by The institution of a Degree in Commerce. the Senate, on the motion of Mr K Subramani Aiyar, for the conduct of the examinations leading up to the Bachelor of Commerce Degree of the University of Bombay as well as two Press Notes issued by the Government of Bombay in connection with the establish ment of a College of Commerce in that city We heartily congratulate Mr K Subramani Aivar on his having finally succeeded, after years of strennous endeavours, in prevailing nnon the University of Bombay to institute a Degree in Commerce In the words of the Hon'ble Sir Narayan G Chandavarkar, Kt.,

late "Vice Chancellor' of the University of Bombay and now Dewan of Indore, "Mr A Subramani Aiyar's advent in Bombay is a landmark in this city I know and Mr Subraman: Aiyar knows how he used to come and tell me that he was bent upon getting the commercial curriculum recognized by the University and I know how at times he was a little disappointed at the slow progress of his cause But I knew that he was a man not to give up what it was his mission to accomplish Mr Sabramani Aiyar is a thin man but a very volatile man, his volatility bas worked wonders He is a missionary and has achieved his mission, and has with his characteristic energy and perseverance prevailed upon the University to recognise the study of commerce He is a Brahmin, and a Brahmin's business is to go and beg, he has begged-begged not for himself, but for commerce and a commercial college"

While we recognise the institution of a University course of studies The establish commerce enabling ment of a College of Commerce young men to be trained for business careers as a landmark in the history of Indian education, the institution of such examinations would by itself have served no purpose if it had not been accompanied by the establishment of a wellequipped College of Commerce capable of preparing our young men for the newly instituted Degree Lord Sydenham has therefore rendered a distinct service to the cause of Indian education by having secured the financial support of the merchant princes of Bombay and of the Government of India and arranged for the establishment of a Government College of Commerce with an income of about Rupees forty thousand a vear.

3. From the Press Note issued in Jone 1912, it appears that two Endowments for donations amounting to the College of Rs. 3,25,000 have been Commerce. received by Government for the foundation of two chairs in the new College, that an annual subscription of Rs. 10,300 has been promised by six Mercantile Associations in Bombay and that an annual grant of Rs. 15,000 has been sanctioned by Government. Again about three lakhs of rupees have been collected by the Lord Sydenham Memorial Committee for the erection of a suitable building for this new College. A brief narration of these facts makes it evident that, but for Lord Sydenham and the merchant princes of Bombay such a well-endowed College could not have been established, at least for some years to come and but for Mr. K. Subramani Aivar's persistent efforts, there would have

4. The College is to start work on the 22nd October 1913, before The College which date the Principal staff. and the senior Professor, selected from among the graduates in Commerce of the Universities of Munchester and Birmingham, are expected to arrive and take over charge. Two lectureships on Rs. 300 to Rs. 500 are reserved for Indians possessing the required qualifications. We understand that amongst the students trained by Mr. K. Subramani Aiyar in Bombay there are two graduate Incorporated Accountants, a graduate Actuary, and a graduate who is both an Actuary and an Incorporated Accountant, Besides these there are about half a dozen other Indians who by their qualifications and experience are also fitted for lectureships in the Collgee.

been no University course for which the

students of such a College could be trained.

5. The course is for three years and admission is restricted to such as have passed the Examinations

training.

Previous Examination of and practical the University of Bombay or the Intermediate Examination in Arts of any other Indian University. Students have to pass the Intermediate Examination in Commerce at the end of the first year and the final examination for the Degree at the end of the third year. As the course provides for three voluntary subjects, students may specialise either (1) as Bankers or as (2) Actuaries or as (3) Accountants and Auditors. The vacations have been so arranged as to coincide with the busiest seasons for Auditors with a view to enable students of this College to acquire practical training by working under practising Auditors or in Banks and Life Insurance Companies, during their vacations, 6. Under-graduates of an Indian Univer-

sity other than that of Bombay most have passed Admissions to the College. the Intermediate Examina tion in Arts of their University before seeking admission into this College; otherwise, they must, after passing the Matriculation Examination of their own University, join an Arts College in Bombay in January and keep two terms in that College from the third January to the 30th September, pass the College examination in September and then join the College of Commerce on the 22ad of October on the strength of the Principal's certificate that they have satisfactorily carried out the work appointed by the University of Bombaj for the first two terms in Arts.

7. We quote the following remarks about the scheme of studies for the Degree from the report Scheme of Studies of the Committee appointed in 1911 to report on the best method of encouraging the study of commerce—a report for which Mr K Subramani Aiyar was mainly responsible—

THE COMPULSORY COURSE

- (a) "Recognising, as they do, that higher business training ought to be based on a systematic study of economies, the Committee have included in the compulsory course a study of Political Foonomy and of Applied Economies in the various superts"
- (b) "Daving the first two years after matriculating, candidates for the Degree in Commerce will study Lng! show the same lines as candidates for the Bachelor of Arts Degree, while in the last two years of their course, candidates for the Commerce Degree will devote their attention to English Composition"
- (c) "As a certain amount of commercial knowledge is necessary for all business men, subjects like Mercantils Law and Practice, General Accountancy, and Leonomic Geography have been prescribed for all students"

VOLUNTARY GROUPS.

"Provision has been made for a certain amount of specialization at the Degree Lx amination, so that candidates may be able to devote special attention to the group of sobjects which will be most useful to them to the special career to which they are looking forward and for which they have an aptitude Three voluntary groups have been provided one of which must be offered by each candidate for the Degree, vir. (1) Exchanges, Investments and Currency, (2) Accountancy and Anditing, and (3) Actourial Science with relative Mathematics."

"We are of opinion that there is a distinct demand for the par-Prospects of vices of vonne men trained employment in the way we suggest, and that the institution of a Degree on the lines recommended will open out new careers for Indian vonths, and help Business houses in securing the services of trained youths, who can be gradually advanced to the highest positions in Business, while, we are convinced. that the cause of liberal admostion will in no way be imperilled, by the recognition of Applied Economics and the study of Business Problems" There will further be considerable scope for these graduates in Commerce us practising Actuaries and Auditors since the Indian Life Insurance Companies' Act and the Indian Companies' Act recently passed by the Imperial Legislative Council require the accounts and statements of such companies to be verified and audited by agalified Actuaries and Anditors

The Law College Re organisation Scheme. as formulated by the Gov-Madres Law College Re organ erament, breaks a distinct isation Scheme spell that till now hung over the legal education in this Presidency. The important features of the Re-organisation are that it reverts to the old system of allowing the College Professors liberty to practice-an arrangement which any one interested in the course of true and sound education, can have no besitation in condemn-A decade has passed since that scheme was discarded in favour of a full timed College which has worked satisfactorily as seen in the results of the T.L and BL. Examinations of the Madras University. The results in the University Examinations during the period prior to 1901, were anything but satisfactory The working of the College,

then, was still more unsatisfactory. Professors being men in active practice, were frequently absent in the material and classes had to be dismissed for the unavoidable absence of the Professors. Matters led to such a climax that people could hardly yet forget the pungent articles entitled "Law College day by day" that used to figure in one of the Madras dailies. It was this undesirable state of things which made the Government convert it into a full-timed College. And the Vice-Principal, and the Assistant Professors who were appointed in the beginning of 1901, were not allowed to practice. This salutary condition has been slowly and gradually relaxed with the consequence that men regard the appointment only as a secondary vocation to be subordinated to the all-absorbing interests of a practitioner. Instances are not unknown and (we are informed) are of frequent occurrence, that these practising lecturers come to the lectureroom 10 minutes late and close their lectures 10 minutes earlier. It is impossible for a practising Vakil or Barrister who has his case ready to be called in the High Court at 11 a.m. and who has to argue an intricate and important case before the Judges, could keep his mind clear and cool, apart from the distracting facts and authorities of his case, to lecture to an intelligent set of young men in an instructive and edifying manner the previous hour. An argument is advanced that the best practising lawyers only could turn out as successful lecturers in classrooms. The very statement of the fact is its refutation. We have only to refer to the bonoured names of Sir Frederick Pollock and Sir William Anson to justify the refutation, if any justification were needed, Moreover the peculiar aptitude necessary for

success at the bar is quite different from the attainments necessary for a successful professor or lecturer and in the majority of instances, the two do not co-exist. The Western nations and foremost of them, the English people have come to realise this. At a time when specialization is the order of the day, it is strange and surprising that the Government should resort to the oldfashioned methods of saddling the successful practitioner who has too little time for his Court-work with the additional burden of lecturing to the students of the Law College, There was an excuse for a resort to this practice during the days of Sir V. Bashyam Iyengar, Ramachandra Row Saheb and Mr. Mitchell, for then the distinguished scholars in the legal profession did hardly exist. But now, when things have changed, and when men with the highest academical distinctions which University could offer can be found in the legal professions, it is against all reason and good sense, that their services are not secured exclusively for the Law College, and that the interests of the College should be made to rise and fall with the varying quantity of leisure that a hardworked practitioner could ill afford. Active service for twelve years before becoming entitled to pension will enable the Government to get men of ripe experience and scholarship for the place and if Professors are started on a decent salary, say at Rs. 1000 per month, and Asst. Professors on a salary of Rs. 500 with an eventual pension after 12 years, they will gladly give up the uncertain income and inconvenience incident to the life of a practising Vakil. The pay and prospects of the Principal ought also to be increased pari passu. Under the scheme just brought forth, it is indeed a matter for surprise that the Government have, in the case of the Law College, adopted a policy which is far from securing distinguished scholars of law to its service The pay and prospects of other technical colleges are graded and they have the sure prospect of a pension after they retire. The peculiar difficulties that lie in the way of at taining distinction in the legal profession, spart from the question of costs in its equipment, ought indeed influence Government in provid ing a liberal scale of pay and in framing rules for the pension of those engaged in imparting instruction in Law On the other hand they are treated with scant considers. tion and the existing staff except the Princi pal, we are told, are not entitled to pension. There are difficulties in the way of framing rules to regulate pension and the duration of the service in connection with Law College The peculiarly prolonged training in Law and the degree of attainments requisite in a Professor of Law will not allow a man to be drafted into its service at the same time as his compeers are drafted in other professions

The rules that regulate the appointment, ser

vice and pension of the Judges of the High

Court may be usefully kept in view in this

connection The Principal, who should be second to none of his Assistants, should not practice and yet his pay is only about Rs 1250 while the two Professors who draw a pay of Rs 500, may enjoy a licentive practice. It does not require any ingenuity to see that such Professors would pay any head to the welfare of the College The Propial besides being a lecturer has to discharge other onerous duties of his office, and it is not erring on the side of liberality if his pay is made to range from Rs 1550 to 2000

The Law College has developed enormously for the last ten years. It needs strengthen it is all ways possible—but strengthen it is all ways possible—but strengthen it with men who can give their undivided time and energy to it but not with men who can scrape a few montes from their busy time and make their jaded time when they have to take some rest a means of repleashing their purse. The last if not the least of these reasons is the legal profession in Madras is a most popular and paying on and as such the public have a right to expect the Government to pay greater attention if not at least as much attention to the Law College as it does to technical Colleges.

JUST READY-Price As.12.

A Text-book of Tamil Composition

Specially adapted to meet the requirements of S.S.L.C. and Intermediate Examinations

(Prepared in accordance with the recommendations of the University of Madras)

G. DAMODARA MUDALIAR, B.A.,

Tamil Reader, Office of the Registrar of Books, Madras (sometime an Assistant in the Wesley College, Madras).

CONTENTS.

Chapters I and II deal with the spelling of words, and give the definitions of cortain technical terms which are used in the work. The uses of sand of, sand sare defined and illustrated by examples.

Chapters III to VI explain broadly the different parts of speech with special reference to the inflections and tense-particles, which obtain in modern Tamil.

Chapter VII deals with compounds and explains the distinctions between caserelation and non-case-relation compounds and those between elliptical and non-elliptical

compounds.

Chapter VIII deals with Sandhi. Those rules which are obligatory are considered first, and those which are obligatory are treated briefly towards the end.

Chapter IX (Syntax) deals with the arrangement of words in, and the analysis of, sentences,

Chapter X (Common errors) is, briefly, a summary of the previous chapters, and gives a number of exercises for correction under the beads of Wrong Spelling, Use of Collequial Words, Use of Improper Forms of Words, Wrong use of Saudhi and Mistakes in Syntax.

Chapter XI deals with Ponctuation.

Chapter XII explains, by means of examples, the structure of Sentences and Paragraphs.

Chapter XIII explains some chief Figures of Speech, such as Simile, Metaphor, Hyperbole, etc.

Chapter XIV (Prose style) treats of the essentials in good composition, ris, Perspicuity, Brevity, Simplicity, Englosu and Picturesqueuese. This chapter contains a large number of examples from standard works such as Panchatantram, Pen Kalvi (Vedanayakan Filial), Ramii Essays (Prof. T. Chelvakesavaraya Mudaliar), Bhartribari (Pandis K. S. Copslachariar), etc.

Chapter XV gives general instructions as to the way in which essays may be written. A select list of subjects for essay-writing is given at the end of the chapter.

Appendix I gives the list of Loan Words approved by the University of Madras.

Appendix II contains a list of books that may serve as models for Tamil composition.

Telugu Edition in preparation.

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A Monthly Record for India

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No. 7

All literary contributions both for renner networks are properly or magnetic than the contribution of the contribution on the succeeding same should as far as possible reaching the Editor of later than the 20th of the worth The Editor solicits contributions on the contribution of the c

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THE CORRELATION OF HISTORY AND GEOGRAPHY* ABOUT this time of the year 1907. I

had the privilege of opening a discussion on The Teaching of Liementary Science in correlation with Geography in the lower forms of Secondary Schools, 'I I dwelt at some length on the observational aspect of the teaching of Geography and showed how the subject might be begun in nature-study the immediate neighbourhood of the pupilathe sky above, the earth below, the fauna

† Published in the Educational Review February

and flora around-together with the natural phenomena of every day I fe, is pregnent with lessons of geographical significance These. when brought into proper relation with the accumulated experience of observers in wider fields, lay the foundations of a rational study of Geography I also drew your attention to the main lines of connection between Geography on the one hand and the natural sciences on the other Though Geography cannot claim to be ranked as a separate science in the sense in which Physics or Chemistry may be considered as distinct units, yet it provides a common meeting ground for the workers in the various fields of pature study and Cartography. mathematics-Climatology, Geodesy, Geology, Anthropology, Ethnology, and the like There is no branch of knowledge having any bearing on human comfort or progress that cannot be brought into relation with Geography The Royal Society refuses to recognise Geography as an independent and definite branch of study, nevertheless the educationist regards it as par excellence the science of sciences. It affords the teacher infinite possibilities of co-ordination with the other subjects of instruction, specially in the lower classes Starting with Geography as centre, his teaching can be made to radiate out in all directions, touching history and language, nature-study and mathematics, 51

A paper read at the Seronth Secondary Teachers Conference, Vizagapatam on 15th May 1913 by Mr & S Parebrahmam Rai, LY

drawing and modelling. In the hands of a skilled teacher, Geography becomes one of the most powerful means of training the intellectoal and sethetic faculties of the child, no less its manual and tactile sensibilities.

I submitted for your criticism and approval avllabuses in elementary science for all classes -- from Standard 8 to Form III-including in my scheme as much of Physics and Chemistry. Brany and Zoology, Geology and Astronomy, as is required for a clear understanding of geographical pranciples. I also laid some atress on the human note-the relation of the habits, dress, and occupation of man to local geographical conditions. I contributed to one of the earlier issues of "The Teacher" a short article on "The New Geographical Outlook," suggesting the continuance of the study of the "natural-knowledge" side of Geography even in the High School forms. The classes in Practical Geography conducted by Mr. G. Ramadoss at one of our annual conferences have given an impetus to this aspect of the teaching of Geography; and, in many of the leading schools in the circle. Practical Geography has been introduced as a regular subject. I may be permitted to remark in passing that undue importance is being given. as in England, to the construction of maps, in preference to a study, as on the other side of the Atlantic, of the interpretation of maps and of physiographical conditions.

I have thus far reviewed what has been done to give you an idea of the secure foundations on which our conception of the teaching of Geography rests. However much a knowledge of map-making, earth-lore, and meteorology be made the basis of a scientific study of Geography, our schemes would be incomplete if, the geographical principles studied could not be applied to the actual

conditions of every day life. Our study of Geography would be soulless and insipid, if we could not view the world as the abode, nay, the dominion of man, its overlord.

I stand before you this morning to have a talk with you on the humanistic outlook of Geography. We shall investigate how the geographical conditions of a region have moulded the destinies of the people inhabiting it-how the physical aspects, the contour and configuration, the climate and the productions, have dominated man's activity in all directions. In short, we shall view Geography as the handmaid of History, and trace the influonce of geographic controls upon its great movements. It shall also be within our province to see to what extent man's activities have been able to combat and modify the natural influences of geographical conditions, This interaction between humanity and its geographic environment, when duly understood and appreciated, should largely shape our ideas of the teaching of two of the most difficult and sadly neglected subjects of the school enrientem

Before we proceed to examine the logical results of earth control on the strivings of man after social, economic, and political development, let us try to understand in a general way the connection between History and Geography.

The most elementary association between the two subjects licein ideas of time and space. While History deals with etime, Geography is concerned with space and situation. This connection of time and place is perhaps the weakest ground for linking together History and Geography.

As Geography deals with the topographical distribution of the earth, mountain, plain and plants and animals including man himselfand as History is the record of the progressive activities of mankind on the surface of the earth, it is impossible to conceive of any history of man spart from the real history of the earth Battles are not fought in the air and men do not live in space. The two subjects present two different aspects of the same question, each being incomplete without proother. In this age of specialisation our

sea, and of everything that the earth sustains—

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other. In this age of specialisation our clearages should never loss sight of the intimate connection that subsists between two such allied subjects as History and Geography It our enthusissm for one of these we are apt to lose sight of the whole of which it forms a part. I have it on good authority that boys are found of Geography and girls of History As nature intended woman to be the complement and associate of mu, so shall Geography leave the sciences which have given it its great the sections of the sections.

birth, and cling unto History I There is yet a stronger ground for correlating History and Geography than of coexistence, sentiment or fellowship A higher and more philosophical conception of the relation between the two subjects, lies in sequences-in the direction which the distinctive characteristics of a region give to the development of its inhabitants, and the way in which man endeavours to make the best of Nature's gifts The progress of civilisation depends on two factors—the nuceasing efforts of man and the steady operation of natural causes These two forces do not act indepen dently of each other towards a definite end. but act and react on each other all history through This dependence on geographical environment is more direct and decided in the earlier stages of civilisation; but, as man rises in the scale of nations he casts off his

slavish dependence on Mother Earth, grasps the opportunities of environment, and learns to control and utilise them. The intimate bearings of geographical conditions on the distribution of man in communities or state must be of interest to the historian who aims at being more than a chronicler, and the efforts of inventive humanity to subjugate nature may be relegated to the domain of Geography

kinder as the physical basis of history We may with Mr Scott Keltie go a step further and call it the physical basis of all human activity As we take a rapid survey of the whole world, we find that the track of human civilisation and progress is modified and controlled by what forms man's immediate environment The he of the land, and the climatic and physical forces around set the conditions under which man must fade or flourish The Laplander struggling for the bare necessaries of life, is dwarfed in stature and cramped in intellect The Cossack of the boundless steppe is an excellent horseman With every excuse and opportunity for reading during the tedious winters, the Icelander has become a book-worm The barrenness of the Cambrian mountains has made "Taffy a thief" The forests of Servia have turned the Serbs into awine-herds The poor soil of Norway has driven the Norwegians to various wood industries—the manufacture of matches. the building of ships and the making of paper Tandstikker Norway' is familiar to every boy the whole world over Norway possesses a mercantile navy that in tonnage is surpassed by only three European powers. Saw-dust is so largely used in the manufacture of paper that "a tree in the morning is a newspaper in the evening!"

The Chinaman wishes to be left severely alone. The Hindu glories in a past that is lost in the abyss of time. The splendours of Egypt are buried in the sand-drift of the desert.

This dependence on rivers for food flush expression in the endearing epithets given to rivers—Mother Volgs, Father Rhine, Sister Daube, Old Father Thames. The rapid growth of population along the banks has made the struggle for existence keen and has raised questions of lutercourse and ownership. From time immemorial these river valleys, inviting conquest from without or fostering strife within, have been the access of rapine and slaughter. One of the earliest motives for war is the possession of more food-bearing winds for sustenance.

"The mountain sheep are sweeter, But the valley sheep are fatter, We therefore deemed it meeter To carry off the latter."

To take a specific example, in three distinct periods of the world's history-once during the war of the Austrian Succession, a second time in 1812 in the Napoleonic ware, and again in 1866 in the Austro-Prussian war -a series of battles were fought in the same line of the Elbe, either in the gorges of the Elbe where it breaks through the mountains between Bodenbach and Dresden, or at a short distance north or south of the valley. The Railway from Vienna to Berlin takes the same route-the line of least resistance. Hence the political and commercial importance of Dreaden which commands the passes, s.g., the ravine of Planen-through the Erzgebirge into Bohemia. River valleys have been the meeting places of both friends and foes, and the natural line for the railway always takes it through a battle-field.

Considerations of time and space prevent my taking more than a passing notice of the Danube basin-one of the most supertant theatres of European war. The lower courses of the river teem with fortified towns such as Silistria, Rustchuk, Sistova, Widdin. These fortresses guard the ferrier, and are of no small importance in time of war. Pleves stood a long siege during the Russo-Turkish war of 1877. On the upper reaches is the fortress of Ulm-an important strategical centre of South Germany against possible French attacks on Alsace and the Rhine. The Iron Gate is guarded by the fortress of Belgrade, the capture of which by the Turkish Emperor, Solyman, in 1521, was the signal for the rapid expansion of the Ottoman empire along the valley of the Danube. In fact the Hellenic Mediterranean was the divergent focus of a migratory movement that, passing along the valley of the Danube, civilised the whole of Western Europe. The great battle which checked the onward progress of the Hungarians was fought on the Lech. The equally important encounter which put a stop to the Mongol inroads of the 13th century, took place near the eastern frontier of Austria proper. The flood of Ottoman invasion was repulsed from before the Hapeburg capital, Vienna, the guardian of the Hungarian Gate. Vienna is within easy reach of Robemia across the line of Mahrenwald. It also communicates with Northern Europe through the valleys of the Oder and the March, and commands the mair highway of intercourse between East and West. Very naturally therefore several military events of decisive importance took place near this city -Radolph of Hapsburg's victory which gave Austria back to the Germans 1278, the retreat of the Turkish army in 1529, John Sobieski's victory which finally drove back the Ottomans, Napoleon's victory of Wagram (1809) which placed him at the result of his power Austerlitz (1805) "that killed Patt" is not very far off

We can trace the history of the colonisation of Eastern North America along the great lakes, the St Lawrence, and the mighty Mississippi The great fortress of Ehrenbreitstein opposite Coblentz is " the Gibraltar of the Rhine" The Guadalquivir gave the Moors an entrance into Spain The "Penideh" incident (captured by Komaraff 1885) took place where the Murghab valley (Afghan Turkestan) narrows into a deep The Turk sh garrison urder the English general Williams held out (1854) bravely for six months at Kars in the valley of the Kur (Turkish Armenia) The entrance to France is Toulouse (on the Garonne)-too loose! Khartum stands at the junction of the White and the Blue Nile Majubah Hill and Rorko's Drift are in the valley of the Buffalo Charleron on the Mense, Talavera on the Tagus, Strassburg on the Rhine, Ratisbon on the Danube, all bear witness to the same great principle Killiecrankie, Jens, Alma, Hohenlinden, Badajos (Bad a hos), Ciu dad Rodrigo (The' oo dad Rod re go) may also be mentioned Again in Northern Italy a number of

rivers break through the Alps and flow from north to south across the plans of Lombardy into the Po wholt takes an easterly course into the Adrianc North Italy is surrounded by the Alps and the well known passes of St. Gothard, Sumplon, Berard and Splugen, give access from Europe to the plans of Northern Italy We should not be surprised it a number of battles were fought either to gain the passes, or to defend a passage across

one of the rivers The battles of Lonato, Rivoli (1796), Chinsella (1800) illustrate the former Lodi, Bassano (1791) Marengo (1805) Magents and Salierino (1839) bear testimosy to the latter The valley of the Adigé, in particular, which gives easy access from Italy into Anstra has been the battle-field of Northern Italy. The valley is full of traces of the heroic struggles of Italy with Austras on the battle-field of Montas, Caldiero,

Roveredo. Nearer home, the ridge of land over looking the basin of the Ganges on one side, and commanding the gates of the North-West on the other, was, in the earlier periods of Indian History, the scene of much carnage and bloodshed The battle of Kuruksheira (50 miles north of Delhi), the two battles of Tarian or Thalawari (14 miles from Thaneswar) and the three battles of Paniput (50 miles to the north of Delhi) bear out the importance of the North Western passes in deciding the destines of the Indian peoples The cap tal of the Indian Empire and the summer residence of the Viceroy are also on the same ridge

It may be pertinent to the subject to discass in this connection why the Swiss were the first to adopt the principle of compulsory military service The four large cantons of Valais, Grisons Bern and Ticino correspond more or less to the upper valleys of the Rhine, the Rhone, the Aar, and The Renss runs between the the Ticino eastern and western cantons The upper Renss valley derives the greatest benefit from the Fohn wind, and the lower Renss valley formed part of the old duchy of Swabia The responsibility of driving the Hapsburg oppressors into the Dannbe valley, and the Savoy intruders into Italy, devolved

on the three central cautons—Unterwalden, Uri, Schwytz. These cantons were peopled by a hardy race of monatsineers of German descent, who could ill brook the insolence of the Hapsburg officer, or the cruelty of the Austrian Dake. The men of Schwytz took the lead and delivered the country from the hands of the oppressors. The "battles of deliverance" were fought round the cauton of Schwytz—Morgarten (1793) on the northern frontier, Sempach (1836) in advance of the western, Näfels shead of the eastern. The heroic death of Arnold von Winkelried is still commemorated by an annual festival.

"Thus Switzerland again was free; Thus Death made way for Liberty."

The story of William Tell emphasizes the apirit which fired the men of these cantons at that time. The military schools of Basel and Thun, the fortresses of Martiguy and Andermatt speak for themselves.

Climate no less than any other geographical factor has influenced temperament, physique and intelligence. Its workings are traceable in the tone and cast of expression it has given to literature and religion. The foming plains of a swampy water-lorged delta in the tropics sap all energy and incentive to initiative or enterprise. The "delightful cold" of the Canadian winter, or the clear buoyant atmosphere of the Karroo, or, for that matter, even the dry scorching heat of the Australian desert, and the sharp extremes of the Tibetan Plateau or the Arabian Table-land, have had an exhibarating influence, and have developed courage and energy which are a good equipment for life. In specially favoured localities this courage and energy crystallised into a love of war and ferocity as seen in the Mahratia yeoman, the Scottish Highlander, and the Gurkha warrior.

The salabrious climate of Giberness habits of the people of Greece health and buoyancy of spirit interest in national games and bod cises had much to do with their beauty, which, in its turn, made them jof beauty in other things. This sense won for Grecian art and literatury world-wide and everlasting reputation.

The science of Astronomy had its bir' in the Ievel areas of South-western Asia where the clear skies, the transparent amosphere and equable climate made it easy for a study of the Heavens. The watchfulness of a pastoral people developed a spirit of enquiry, the twinking of the stars contrasted vividly with the bright blue sky behind, and the lack of well-marked boundaries in an oriental desort made aknowledge of Astronomy indispensable, in much the same way as the annual obliteration of all marks of demarction by the innudations of the Nitz resulted in a study of Survey and Geometry.

Religion in its ultimate analysis is an expression of dependence on something that can gratify or torture us. Man throughout all time has deified that which has made the strongest impression on him. The school boy living and moving and having his being among mangoes and sweetmeats, why should he know of bliss in a life to come? Enough if he dreads the powers that can rob bim of his holiday or bar his promotion. To the auxious mother the doctor who can save her collapsing son, is a god. The miser rolling in wealth is a worshipper of Mammon. The usurer sita before his golden pile every DEPAYALI, The Red Indian bows before the munificent bestower of maize and meat-The Hindu, discovering the antiseptic properties of sunshine, has ordained the worship of the sun in all cases of illness The importance of the timely arrival of the south-west monsoon to the Indian peasant, finds expression in the worship of Indra and Varona The superstitious reverence for the cow is nothing more than a poetic conception of clouds, whose udders pour down on plants and animals the showers of the nectar of life The melting of the use of the Neva is celebrated with great rejoicings in Russia The loss of vitality on the sweltering plains of the Ganges, the presence of death in almost every form and shape gave rise to the doctrine of Nerrana The mythologies of Iudia, Greece and Scandinavia are other instances in point, The three great monotheistic religions of the world-Muhammadanism, Judaism and Christianity-had their origin in a desert Compulsory self denial gave predominance to the mind over the body All the three religions preach the lesson of a harsh inhuman desert, Renunciation, Thou shalt not The Jewish conception of a God of Justice. " a jealous God visiting the iniquities of the fathers on the children nuto the third and fourth genera tion," bears the impress of their Egyptian bondage The promised land overflowing with milk and honey lies at the base of the Christian notion of the God of Love The Muhammadan idea of eternal bliss, of miend ing sensuous delight attained by the faithful, is in direct opposition to the privations of life in an iphospitable desert. The study of Geography has thus revealed man as the creator of god-a god to suit his own needs and fears, his hopes and aspirations I am alraid I am trespassing on boly ground ! Considerations such as these have led to a

belief that forms of government should vary with the climate The slavish dependence of XIX

the Negroon Nature's bounties has its counterpart in the unquestioning obedience he yields to authority The lassitude induced by the enervating climate coerces him into complete subjection Picture to yourselves the untold horrors of a Chinese public examination! What do you think of being shut up in a solitary cell for full 48 hours with a bundle of question papers in your hand, and after a day's rest to pass through a second similar test So trying is the ordeal that candidates are often found dead in the cells. The flexi bility of the S S L Certificate scheme breathes the spirit of freedom of temperate Germany The physical disquiet of the Andean region-its volcanic eruptions and earthquakes, its tornadoes and hail storms-are reflected in the political unrest of the South American republics,

In the tropics Nature is an indulgent mistress but in temperate latitudes, She is the servant of man The forceful energy and methodical labour, the foresight and thrift characteristic of milder climes-these vigorous attributes essential to comfort and progress demand institutions resting on the reason and respect of the people The perpetual struggle with Nature corresponds to the mending conflict with the crown

CAN GEOGRAPHY ACCOUNT FOR THE DESPOTISM OF THE TRAR!

"In the case of Russis, I would try to leave," says Prof Lyde, the "picture of (u) the vast plane, where man is overwhelmed by the tyranny of Size, where he is isolated from his fellow man by the tyranny of terrific distances, where his initiative is crushed out by the tyranny of relentless monotony, where the absence of natural landmarks makes the church dome, gleaming above the mist cover-52

ed lowland, the only goide to the benighted wandere,—and (s) as the result of all this, where that wandere in turn so acquiesces in saccredual tyranoy that he denies his children all animal food, ever milk and eggs, in the coldest parts of the year as soon as they overlap Advent and Lent, where the perishableness of his wooden house, by firs in the icebound winder or by the ordinary wear of fifty summers, saps any Historie sense with which he might criticise tyranny—whether political or ascerdotal, physical or climatic."

The instances just submitted will suffice to bring out the bias which topography and climate have given to the course of human history. The intimate relation between "life" and the inorganic elements which have determined its distribution on the surface of the earth, was recognised even by the nealmist. "The cedars of Lebanon, which he bath planted; where the birds make their nests; as for the stork, the fir trees are her house. The high hills are a refuge for the wild goats; and the rocks for the conies." This diversity of life, this adaptability of every species to its environment apparent in such a limited area, becomes all the more striking as we take a broader view. The differences due to the operation of natural forces are most in evidence in the life of plants, lower animals and savages. The semi-aquatic Esquimaux, the" bairy" Ainu, the wandering Bedonin, the Prairie Red-skin, the negro "panting at the line" and the omnivorous tribes of the Australian Scrub, all bear in their modes of life distinct traces of the influence of their takurah surroundings. Like the polar bear, the Arabian camel, the Australian kangaroo or the African rhinoceros, they have either to adapt themselves to their environment or succumb to it. The hidden treasures of the

earth must remain to them a sealed lette: The expherant basins of the Amazons and th Congo, the diamond fields of Kimberley, th coal mines of Chins, the cataracts of the S Lawrence, the prairies of North America, th gold veins of Kalgurli, the oil-wells of Pitti burgh and Baku have so long remains nnexplored or undeveloped, untapped o unmastered. Unable to understand or utilise the physical forces about him, man invariably sacrificed ultimate good to immediate pleasure. The Australian blackfellow, his brain atrophied by ages of disuse, would hew down a whole gam tree to capture an opossum; the gentle Mashons of Zimbaye would not hesitate to set acres of grass on fire for a dish of mice; savages have not scrupled to reduce whole forests of useful timber to ashes to make a clearing for cultivation.

With advance in civilisation man has been able to rise above the blind instincts of his savage brother. Man alone of all living beings has recognised the intelligence with which he is endowed. He alone has learnt "to comply as well as to command, to conquer Nature by the observance of her laws." The memorable march of Hannibal along the little St. Bernard Pass stands out in all history as an illustrious example of what man's courage and determination can accomplish in the midst of natural obstacles.* This is perhaps in direct antithesis to the advantage taken by the Dutch, as a last desperate resource, of natural conditions in their long war of independence against Charles V. What a and disappointment to the enemy just when they were gaining ground to be ordered back by the surging floods !

This I owe to the kind auggestion of Mr. O. Ransford in the course of his presidential remarks

The application of steam to locomotion and the discovery of the electric telegraph have appublished time and space, and have swept away all barriers to cosmopolitan intercourse The mariner's compass and the sextant have made navigation a science. The once track less waste has now become a high way of commerce Man has belted the globe with cables and spanned the continents with rail The projected overland route to Australia enables him to go round the world in 35 days. The manastered floods of rivers have been controlled and made subservient to The destruction of forests here and their conservation elsewhere have materially altered the conditions of rounfall and of climate Steam drives the plough and reaps the harvest in many land. A judicious system of progation and storage coupled with the boring of artesian wells, has made the wilderness blossom as the rose A dreary landscape is now a smiling field of tasselled corn The whiteman's grave has been rendered sweet and wholesome by transplanting the Eucalyptus from Australia The lavish use of hill stations has enabled him to work far away from home, and home itself has been brought within reach of a holiday Who can belittle the importance of the Alnine tunnels. underground railways, suspension bridges, ship canals and other feats of engineering akıll 2

We may yet dream of the roaning Nisgars working the machinery of the whole world Ere long there may arise an indos'ris! South Africa drawing its motive power from the Victoria falls, where the Zambesi compressed into a gigantic swirl plunges into a gorge 420 ft, deep; the cotton mile of Bombay may yet be propelled from the Gersoppa falls, where the Sheravati river dashes over a yawn

ing precipice half a mile high. It is not impossible that man's inventive genius will one day enlist the ocean in his service.

one day enlist the ocean in his service In his perpetual struggle with Nature, man has grasped the inheritance of time and has learnt to overcome his surroundings. Does not this very subjugation of Nature emphasise the dependence of man on Nature's giftscoal and iron? Climate is still the masterhand under which he works. It still directs his doings and defines his limits. The natural elements have been largely subservient to Now and then, however, they rebel and undo his work to show him how insignificant he is when compared with the mighty forces of Nature The intelligence within him gives him the courage to rally and repair the rayages caused, and proceed to barness nature with stronger bands. We have thus canonic a glimpse of the limitations under which man works, and it is the business of Physical Geography to investigate these limitationsthese conditions of conditions in the structor hetween Nature and Man Apart from the changes wrought by inven-

tive humanity in the physical world to make it adaptable to its requirements, there is yet another phase of human activity which the progressive teacher of Geography cannot ignore The previous history of a country is largely reflected in its present geographical condition What a flood of light does a knowledge of the tribal migrations of the people of Asia towards the West about the beginning of the Christian ers, throw on the differences-racial, linguistic and personalof the peoples of modern Europe! Is not a study of later European history essential to a clear appreciation of the modern strategical values of state boundaries, and of the elements in continental affairs that may, in the near

future, lead to changes in the political map of Europe? The stimulus which the American Civil War has given to the production and manufacture of cotton in India, and the circumstances that have contributed to the unique commercial importance and prosperity of Bombay are too well known to need special mention. Is not the failure of supplies of flax and hemp from Russia during the Crimean War, responsible largely for the jute trade of Dandee? Could we afford to underestimate the part played by the Napoleonic wars in the development of the "lumber" trade of Canada? The nureliability of the importation of Baltic timber led England to look un to Canada for supply, and the lumberers rose to the occasion. Canada owes a deep debt of gratitude to the lumberers-the only possible pioneers of the country-who cleared the forests, made roads and bridged the rivers.

The military walls round important cities preventing their natural expansion along the lines of least resistance, the difference in gauge between the railways of two such adjacent countries as Frace and Spain bindering through communication, are typical of the aburdities in which nations have induged even in these civilized times.

How could we appreciate the importance of lace as an srticle of export from Paragnay, if we did not know its previous history? That country was from 1865—1870 engaged in a fatile heroic struggle against the combined forces of Brazil, Ursquay and Argentine. The war depopulated the country, and out of 1,400,000 inhabitants only 221,000 (1/7 of 1/6) were left, of whom do more than 20,000 (1/7 of 1/6) were left, of whom do more than 20,000 (1/7 of 1/6) were unless over 15 years of age. The large number of women accounts for the importance of lace as an industry. In spite

of capitalists to advance 'monor, a level sorface making transport by rail or road both cheap and easy, a genial and varied climate and a fertile soil, the country has not developed, as the surviving old men, women and children have proved unequal to the task.

The short-sighted policy and the religiousbigotry with which the Inquisition extinguished the indigenous Moories industries can alone reconcile the entire absence of foreign commerce with the apparently advantageous position for trade of the peninsels.

The material and political splendoor of Egypt, lost in oblivion, has been partially restored by the British occupation of the country. England has borne her share of the white man's borden in looking to the two essential needs of Egypt—water and justice—and the felladin enjoys peace and prosperity unheard of in the annals of Egypt—Thessaly has takes to heart the cruel raids.

Thesaly has taken to heart the crool raids of "the unspeakable Turk." Having groaned under the Turkish yoke for many painful years, Thesaly has realised the insecurity of her position on the frontierven after her restoration to Greece. Its natural resources are very limited, and, thinly peopled as it is, it is no wonder if the country is not as prosperous as it should other wise have been.

The defeat of the galleons of Saville was but the preided to the part England was a desired to play, as mistress of the seas, in after history. The annihilation of the Spanish Armads, the enterprising spirit of the "Devonshire worthies," the union of England and Scotland under one king, the cowardies and peace policy of James I, laid the foundations of a greater Britain beyond the seas—"the grandest and most wonderful political and commercial fabrio," history has known. Trade has practically followed the

flag, and every Englishman is justly proud of his inheritance—a sea girt empire over which the sun never sets—an empire 12,000,000 of miles in extent, counting 400 000 000 inhabitants, differing widely in colour, race and speech, but one in loyalty and devotion to the British flar.

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Fair is our lot—Oh goodly is our beritage
He has smote for us a pathway to the ends of all

To the British Empire and to India of which it forms a part, we shall now restrict our investigations. As the field is very extensive, I have noted the geographical influences in Indian and British History in the form of syllaboses, I ahould rather call them topical late which I submit for your knod accentrance.

- * 1 Lat of Geographical influences in Br History
- * 2 Last of Geographical influences in Ind History

Long before any attention was paid in England to Geography in its scientific and practical aspects, Germany had worked it out somewhat elaborately both as a subject of research and of education On the Continent as well as in America Geography has proved its claim to independent existence as a necessary branch of human knowledge by being capable of original and quantitative research. The literature available to the German reader is very extensive Indeed in Germany the humanistic aspect of geography has been recognised as a separate unit and labelled "Anthropo-Geography".

But in England the movement to improve the teaching of geography does not date very far back the repellent text books of our school days, are still extant, and the dry as dust methods of study have not completely died out of late, however, a few good books have been published by enterprising firms catering to the needs of the up to Chate teacher. The list herewith submitted is by no means exhaustive but represents the more important books worth the teacher's attention. None of the books noted have been written to suit Iedian schools. Yet teachers will find in them now ideas and suggestive trains of thought.

† Let of Books

Insta word more and I shall have done Wa have yet to consider to what extent this interdenendence of history and geography should influence our ideas of teaching. We are all agreed that, for a clear understanding of many points in history, a knowledge of the scenes of the events and of the position of the places mentioned is essential. The map, the physical map and not the political, should be displayed, and any geographical information necessary should be furnished I hope you will also endorse my view that the mere shility to draw a map and to mark the position of places on it, is no guarantee that the pupil has a grasp of historical geography I am also sure that the consensus of opinion here is that there is too much geography, specially military geography, for a history student to learn, and that, therefore, a detailed study of a typical campaign or two, and the military manuscrees in a couple of decisive battles just to give himself a little variety, is all that the history teacher can be expected to undertake Throughout the history lesson. however, the relative position of mountain ranges, table lands, plants and valleys and the resulting determination of water courses

To appear to a subsequent issue

[†] To appear in a subsequent issue.

together with air, rain and sunshine in all their complicated kaleidoscopie combinations, should be placed in bold relief before the popils, and they should be eccouraged to see how these conditions, forming as they do man's immediate environment, have operated on history.

I may be permitted to notice the modern tendency of subordinating the scientific atudy of geography to the humanistic outlook of history. The physiographical side of gengraphy which alone affords real mental discipline, is entirely thrown into the background. The physical characteristics are connected with the life of the people, and such information is given as may throw some light on the history and modern position of the country under study. Such a treatment naturally fits in with the lines of attack of the history teacher, but cannot be dignified as "Scientific Geography," nor assigned a separate place in a school curriculum. The 'readers' I am alluding to, might be used in the history class or in the geography lesson for extra reading. Here their utility ends.

I was amused to notice analogy in the method of treatment in a parallel series of history and geography renders. In the earlier stages, the study of the home region goes hand in hand with that of the livre of the heroes of the homeland. In the middle stages a general treatment of broad movements covering large time areas in history is made to correspond to a study of the outstanding features of geographical regions. In the higher stages landmarks of Evropera and world bistory are taken up alongside, of the general geography of the world on a regional basis. Analogy is not correlation nor is custanciation in the relationship of the world on a regional contamination.

Some educationists have also suggested that both the subjects should be combined

and two interesting series of readers have already been published. One retire emphasizes Gregraphy. The other sub-ordinates in to History. Both the series have much to recommend them except their disciplinary value. Amalgunation is not correlation. The very idea of correlation implies that the two subjects have different points of view. While Geography deals with the causal relations of space and situation, where and why ther? Introry is concerned with sequences of events in their time relations when and why ther?

Geography treats of man and earth, listory of man and mon. Starting with nature, Geography ends with a recognition of the interaction between man and astroc. History takes a moch wider outlook. History has its foundations in the influence of environment on man. The superstructure would, however, be waiting if it did not go a step further and aim at a knowledge of the political and social evolution of man, an insight into the springs of human action, and an idea of the datiles and responsibilities of man as a number of society and citizen of an empire.

The history teacher should have in view the conditions imposed on history by geographical circumstances, and the geography master, in his tarn, while strictly adhering to the scientific transtense of his audienting to the scientific transtense of his audienting to the scientific transtense of his audienting to the scientific transtense of his highest hood, as occasion arises, refer to the facts of history only in so far as they have langibly affected the geographical condition.

An examination of the series of readers above referred to, will at once reveal to the most superficial observer the danger of amalgamating the two subjects. The bright pictures presented and the Cinematographic displays of scenes from the world's History and Geography interest the pupil—I should any, fascinate him—but at the same time rob him of the power of anstained thought On account of the disconnected character of the scenes presented, neither historical nor geographical causation can be perceived, much less appreciated. The child begins to generalise on insufficient data, and gets into slipshod ways of thicking, or, what is more likely to happen, is carried away by "the impressionist pictures," and refuses to take kindly to more serious wet.

Addressing a professional audience, I need not dwell on the necessity of correlating allied branches of knowledge The co-ordination of studies, or "Apperception masses" as the Germans would have it. is but a technical way of expressing the popular psychological idea of "proceeding from the known to the unknown" Continuity, Fellowship, and Economy are the three factors governing the operations of nature The past is indissolubly bound up with the future through the present, and thoughts follow each other ma chain The faculty of speech brings to the front the sociability of man from the intellectual side Nature never presents one sided problems, and the psychologist recognises this fact in his theory of "the Association of Ideas" All intellectual material that is not brought into relation and harmony with the previous contents of the mind, fails to be assimilated The first of the five formal steps of Herbart, which explores the previous thoughtcontents of the brain, ensures economy of effort in making the presentation easy

"Thought must be kindled at the fire of thought"
"Nothing in this world is single,

All things by a law divine In one another a being mingle '

K S Parabbahnan

A CRITICAL ESTIMATE OF GRAY, GOLDSMITH AND COLLINS

GRAY was a poet wift lofty imagination Goldsmith spent his energies in writing proce and poetry. The name of Gray is always associated with his immortal Blogy while the name of Goldsmith is known all over the c vilised world with the spread of the glory of the immortal Vicar of Wakefield. Both of them have achieved lasting fame with a very small volume of poetry. They differed widely in their mode of composition Gray laboured his verse as the jeweller polished the damond

Goldsmith wrote with the artless simplicity of nature Goldsmith's Deserted Village is a striking picture of one of the saddest features of the crylisation of the world The success of the poem was instant and enduring Gray, incomparably the best critic of the period, heard the poem read by his friend Nicholis and exclaimed, "This man is a poet" Goldsmith's best poems, the Traiciller and the Popian Couplet His best dram is "She Stoops to Conquer" He wrote Histories of England, of Rome and of Animated Nature Ease, a peculiar charm and minitable natural-ness characteries by works.

Gray's Elegy is one of those rarest poems which achieve at once a fame and name which they ever a fitter retain. It is perhaps the best known and in its own life the best poem in the Loglish language. Mr. Palgrave says "They are perhaps the noblest stanzas in the language"

The author who had a prejudice against being considered a man of letters did not publish until seven years after he had begun it and then only he committed it to print because the editor of the Magazine of Magaziner-au 18th century forerunner, in name at least, of the 'lteriew of Reviews'—proposed to publish it without his leave. It has been through numberless editions and has been translated into many rernaeular languages. It is a poem that ought to be got by heart by every student. The best known tribute to this poem is associated with the name of one of the most brilliant of British Generals and one of the most fateful battles which decided the destiny of the new world.

Lord Mahon wrote thus :-

On the 18th September 1750 the night before the battle on the plains of Abraham, General WolfewardescendingtheSt.Lawrence with a part of his troops. Not a word was aspken—not a sound was heard beyond the rippling of the stream. Wolfs alone—thus tradition has told us—repeated in a loud tone to the other officers in his hoat those beautiful stanzas with which a country churchyard inspired the muse of Gray.

One of the telling lines in the poem:

"The Paths of Glory lead but to the Grave" must have seemed at such a moment fraught with mournful meaning. At the close of the rotistion Walts wild.

"Now Gentlemen, I would rather be the author of that poem than take Quebec." Lord Byron called the Elegy "The corner-stone of Gray's Poetry.

GRAY AND COLLINS.

A comparison between Gray's method of allegorical representation and that of Collins shows that the allegories of Collins are finished ones with more of flesh and blood than the former's.

Gray chooses telling adjectives while Collins

has an eye to viviluess of detail. Gray's allegories as found in hit Bard are bold and clear, whereas Collins' representations are subject to the reproach of veguences and obscurity owing to their effort of furnishing details. Collins in his "Ods to Passions" shows the presence of a cenius.

Taking a particular piece of Gray's other vigorous poems, the 'Bard' has a special significance about it. It is founded on a tradition current in Wales.

The Bard, the last of his race, the balk of whom Elmard had ordered to be murdered that they might not rosist, invokes the veogrance of Heaven on him and shows him the futility of the conquest as well as the pange of removes he has to addre. In this poem, the poet gives a striking picture of the Bird's ashle garb and haggard eye and streaming hair and beard:

"On a rock, whose haughty brow, From a over old Conways foaming flood. Robed in the sable garb of woe, With baggard eyes the Poet stood "

The poet then indulges in a pathetic fallacy and says;

"Hark, how each giant oak and desert cave
Sighs to the torrent's awful roice beneath
Over thee O' King I their hondred arms they wave
Revenge on thee in hoarser mormer's breathe;
Yocal no more, since Cambria's fatel day.
To high bore Hool's harp or soft Llewellyn's lay."

The dead Bards and their magic mastery over the phere of songs are particularised. When he is mearning over their loes he sees a vision of other pheats present in the distance and joining with him in prophesying the fature of the king.

The sad fortunes of his descendants are traced. The capture and marder of Edward II by his wife known as "The She Wolf of But in spite of Fdward's (III) grand conquests his death bed is deserted and he dies in solitude Black Prince is dead, and deserted by his freeds Sometime after the kingdom is torn by the Civil War attended with great loss of hie and bloodshed and disgraced with many foul marders

As a sample of immediate retribution they foretell the death of Fdward's beloved wife and the prophecy being complete, the ghostly vision of the Bard's slaughtered companion Variables

The Bard then sees another vision of the resuscitated glory of the old British kingly line.

Girt with many a Baron bold Sublime their starry fronts they rear, And gorgeous Dames and Statesman old In bearded Maissky appear

The poets version of Shakespeare, Spencer and Milton appear in all their richness and variety and the Bard triumphantly points out the fathity of Edward's impotent efforts to stifle the spirit of the poetry

The tradition on which the Bard is founded is wholly worthless and rests on no sure foundation Its current in Wales that Edward when he conquered the country, ordered all the Bards to be put to death In the poem we notice two special features Violicitive spirit and an assertion of the elevanty of poetry This duality is characterised by some as defect in the structure.

The first intention of Gray was that the Bard should declare prophetically that poets should never be wanting to celebrate true virtue and valour in immortal strains But Grosse is of a different opinion. He says "But fortunately for his readers Gray was purely diverted from abstract considerations of history into a concrete observation of its most picturesque forms and forgot to trace the ardour of poetic genus in painting pictures of Ldward II s imprisonment and of the massacre of the Bards at the battle of Cambin.

Some of his contemporaries H Walpole and others alleged that the poem was marred by obscurity of historical allusions. It is however groundless and a hitle knowledge of History clears all doubts.

The opening is admirably startling and effective the historic pictures and scenes that pass before our eyes are invariably vivid and are unrivalled for concision and force especially the stanza about Elizabeth

Amidst the profuse abundance of his impersonations he aims always at presenting the purity of Greenan outline. His fancy like that of Shelly roamed freely through all the varieties of Spiritual Polytheism.

William Collins was one of the truest lyrical poets of the age. Even while he was a student he had written his Persan Ecloque He came out of the University with a reputation for capacity and indolence. His "Ode on the Death of Thomson," beginning.

"In yonder grave a Druid lies" is one of the finest poems in the English language Collins' best poem is the "Ode to Evening" and his most elaborate poem is his "Ode on the Passions," in which fear, rage, pity, joy, hope, melancholy and other abstract qualities are successively introduced making a trial of their merits on musical instruments. The manner in which each passion is made to acquit itself, is ingeniously conceived. "The lovely little Ode to Evening" consists of a few stanzas and the whole poem seems "dropping with dew and breathing the fragrance of the hour."

His best critic says of his poems:—"His range of flight was perhaps the narrowest, but assured by the highest, of his generation. He could not be taught singing like a finch, but he struck straight upward for the sun like a lark."

. [N.B.—The writer lays no claim to originality.

Most of the ideas are taken from the
lectures of the Rev. J. M. Russel of
the Madras Christian College.]

R. R. BHASHYAN ITENGAR.

NEW CURRENTS IN TELUGU

SONG. "CERTAINLY, I must confess my own barbaronapess : I never heard the oldsong of Percy and Douglas, that I found not my beart moved more than with a trumpet." It was with a keen recollection of this famous sentence of Sir Philip Sidney's that the present writer pored over a simple and unpretentions ballad, which reached him by an accident, an unbearable summer noon last year. A few pink sheets folded carelessly into a thin and sallow packet were placed into his hands to while away a tedious hour. The pages were turned with a feeling of listless languor; there was nothing within eight, but the blinding rays of the sun; there was not the remotest chance of the mind being refreshed in such surroundings, and lo I to his intense astonishment there was unfolded before his eves, a Teluga ballad, whose moving pathos went straight to the heart. It was a gloomy

tragedy, enacted in its essence in many a

Hindu home, proclaiming in its mourning notes the baneful consequences of some of our social institutions. There grew a beautiful maiden in a sweet mountain valley; a greedy father gave her in marriage to a dotard for material considerations, and she disappeared one evening amidst the lotuses of the adjoining tank, preferring death to such conjugal unhappiness. Herewas a theme full of pity and sorrow and it was worked to such a pitch of suffering and softened with such tenderness that it was difficult to restrain one's tears. Here was intrinsic merit enough to justify further interest and enquiry; and there was the additional circumstance that it was mainly in directions somewhat alien to the history of Telugu literature. Telugu poetry was being enriched by new currents of feeling and workmanship, as the result of its contact with the rich treasures of English literature. And none interested in the subject of Telugu literature, or in the influence of English on Indian vernaculars could afford to ignore such striking tendencies, especially at a time distinguished by a widely-felt desire for the improvement of those languages. The ballad was from the pen of Mr. G. V. Appa Rac, of Visiansgram, a Telugu scholar and poet of considerable ability and repute, who had long been endeavouring successfully to introduce new impulses into Telugu literature.

A review of some of his recent productions in verse must thus be of considerable value for a study of some of the possible developments of Telegu poetry in the future, and more generally, as affording an instance of literary evolution, in obedience to external impulses of a powerful and desirable type. In a country in which progress is returded at every step by the purblied champions of conservations, it becomes almost a duty to well.

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come such well meaning reformers Profiting by the literary models of an alien tongue other than Sanskrit is unfortunately an unfamiliar process to every one of the numerous vernaculars of the land, and the first appreciable innovations are to be traced in movements of this nature, which have come into existence only within the last few decades

It is idle to deny the existence of ballads in this land. Many a wandering minstrel may be seen singing the deeds of old chieftains to groups of assembled villagers under the spacious shade of the banyan But we believe, the ballad-form has been used with undoubted literary value about it, for the first time in Telaga literature by the poet here When Bishop Percy ventured to publish the Reliques of Ancient Poetry he thought it necessary to put in an apology in the preface for having concerned himself with what may be called "vulgar" literature It is significant that nobody should have had the courage to do so for Telugu ballad hterature, even with the expression of some scepticism as to the wisdom of such a procedure

Acursory examination of the ballad referred to already as sure to reveal its striking literary merits. The poem seems to open with a sudden outburst of tinkling silver bells arresting our attention, attuning us to a sympathetic enjoyment of what is to follow Though the poem represents a reformed type in literature, there is a rare and loving insight into the pious Hindu rites in which the youthful herome finds consolation There is a true knowledge of the playful ways of childhood displayed in the explanat on of the main cause of her misery after marriage was the ridicule of her playmates, who scorned the lass that married a " grand-father" that she could not bear Her parting words-she

was thought to be changing her home, but she was really flying to the arms of Deathare a study by themselves in the delineation of the true ideal of sacrifice and enotless love that ought to actuate an ideal woman They are characteristic of a true Hindu heroine! "Brothers, let service to our dear father and mother be your constant care, do dot swerve from your faithful worship of our family goddess, the Mother of all Mothers , offer at her feet the best flowers and fruits of the season, when the members of our family come together in joy, let there be a thought for one who is not with them"-and the most tender touch of all,-"confer my name as a token of memory on one of your children" she disappears, we feel a true herome has vanished from the stage, leaving the wicked world in darkness, for the absence of such a light It is a tragedy that must come home to every Hindu heart and cry for immediate redress. It is an artistic impulse that has been responsible for the production, but it will not certainly be maintained that its value 18 lessened, by its capacity for rousing attention to a grave social peril, that is responsible for not a little of the unhappiness around us

Numerous social principles, full of the liberal impulses of to-day are skilfully woven into the poems of Mr Appa Rao without the least detriment to their artistic spirit Orthodox Hindu sentiment may stagger at some of the radical ideas embodied in his poems, but to the cultured mind they are significant of the new light that is illuming our social life. enabling us to perceive the wrongs of centuries The popular Hindu ideal of the divinity of the husband, which though capable of some moral influence does not certainly tend to equality in love, is severely handled in the poem entitled Sovereigne,

There is in the poems a rade shock to popular sentiments as in the plays of Ibsen and Boraard Shaw, but the effect must be equally wholesome. "It is an old-world saying that the husband is a God," asys the husband himself," he is a comrade," and proceeds to offer his spouse not the jawels of gold which in a moment of feminion weakness she longs for, but the inestimable wealth of his love.

The spirit of the social reformer is patent even in the poets treatment of the philosophical allegory of King Lavana from the Gnana Variahta. It tarns on the Kabatria ruler's love-experiences with a girl of the untouchable class. It is terrible in its grim realism, and is as poignant in its emotional appeal, as it is fall of import to the social philosopher.

From such heights of sublimity there is an occasional transition to the familiar scenes of home-life. The poet sets out to string a few pearls together. The young Hindu husband has returned to the village from his stay in Madras, full of the new spirit, setting convention at defiance and drifting away gradually from the life of his people. There is a cortain-lecture; the wife administers a gentle rebuke; there is an exposition of the conflict between the new and the old, and at the threshold of great changes the post cannot help casting an anxious look at the departing world. The youthful radical is warned against the possible deception of home-life in his over zealous pursuit of reform. Is it not possible to look upon this as a declaration of caution by the poet himself?

The version of the Greek tale of Damon and Pithyas is a brilliant example of his ability in the easy and graceful narration of a story. Out of the very scauty material

afforded by classical literature he has evolved a poem full of picturesqueness and animation. The Greek setting is described with extraordinary viridoess, with a very fine sense of sound and colour. The island of Samos is there before us in all the glory of spring. Each starax is a complete picture in itself reminding one of some of the perfect landacape-painting of Tennyson in poems like the Palace of Art.

It is a similar love of nature that is perceived in the Songs from the Blue Hills, a miscellaneous collection of poems dealing mainly with life and access on the Blee Bills, in "the sweet half-English Nigity air." A piece of striking merit is one containing a declaration of love at first sight. The beasily of repose which according to Lessing is the special province of painting and sculpture is continuity enough brought on there in peetry, in describing the charms of the preson to whom the lines are addressed. As they are when the lines are addressed. As they are ead, there is a profound realisation by the reader, of the trath utered by the Greek Simonides, that postry is eloquent painting.

Numerous other pieces of merit are found among the poet's writings-the Telogo world will probably soon have the privilege of reading them in a collected edition. It must be a task of no ordinary interest to examine them in detail and appreciate the variety of new elements that have been introduced into Telugu song. But enough bas probably been said to draw attention to the success that has been achieved in these new lines of poetical activity. It is only necessary to add in conclusion that there is in the poems an absolute disregard of rhetorical artificiality and poetic convention, which have always been the bane of Indian literature and who will be so rash as to forecast the scope and significance of this movement which has the genuine ring of poetry and applies itself to the treatment of the primary emotions of humanity in a commendable spirit of high seriousness?

OCTACAMUND, 11th June 1913 }

P SESHADRI

A COURSE OF STUDY IN ENGLISH HISTORY FOR THE HIGH SCHOOL CLASSES

"OLD order changeth, yielding place to new" is a time honoured saying, which characterises every stage of human development and thought While this is true in all aspects of human experience, it is none the less so in the field of education Progress and not stagnation, is the key to success and without change there can be no progress. We clearly see before us in our every day life what changes have been overtaking us, consciously or unconsciously, and how we have to adjust ourselves to those changes though a certain degree of inertia is to be overcome at first

Coming to the point, we find that in the field of education, every year brings along with it now methods of instruction which, of course, take some time to spread to the masses. Whoever, of those at least engaged in the teaching profession, does not know that in English the direct method of teaching has taken the place of the translation method, in mathematics old methods have given place to the introduction of graphs and in History and Geography the old chronological and the "where and what?" methods have been replaced by the modern and more rational ones in the light of psychological investiga-

tions? But still, in most of the schools, much difficulty is felt, especially by those who are possessed with a conservative spirit, in following those methods, partly owing to the fact that they are not yet fully aware of the wholesome results of such methods

Reserving my observations on the teaching of English and other subjects to a later issue of this journal, I shall take this opportunity of throwing a few suggestions regarding the teaching of English History according to the most modern, approved and common sense methods From my own experience as a History teacher, I can, with a certain degree of a knowledge of existing conditions, assert that most teachers of History do not realise the importance of, and the pecessity for, a well graduated syllabus in History, for which they are only partly responsible. If, at all, there is any subject in the school curriculum, ppon which the Headmaster looks with a step motherly affection, it is History The general tendency is to relegate it to an me conficant place in the corriculum and a consequent disgust for the subject is often the pet result Further History teachers are not specialists but those for whom no other work can be found A fair percentage of schools have in fact no syllabos and the few schools. that have an apology for a syllabus, have done it in the most slip shod and hackneyed lines The essential difference in History teaching between the old methods and the modern ones, consists in that, in the olden days, there was too much adherence to textbooks, but in the modern days, a happy compromise has been effected, on the German lines, between text book and oral instruction, The teacher, who sets himself to frame a well regulated syllabus for the High School forms. should not ignore the fact that he should give

single events centring round a certain personage or a locality and that, as in Science and Mathematics, a fair amount of practical work should be set. It has been well said that 'what the benches, the test-tube and other apparatus are to the science student, so are the documents, maps and other sources to the History student: ' and as such the syllabus should be framed on the topical method, giving a certain degree of prominence to practical work which will consist in the be safely left in the hands of teachers.

greater prominence to topics rather than to students' working upon the documents as thought-materials, drawing up of lines of time and preparing genealogical tables, plans and sketches of battles and events.

Having chalked out the lines which a good syllabus will take, I shall here stop with a course of studies comprising all the above requirements and covering at present the Angle-Saxon and the Norman periods. Of course. I have not made any distinction here between detailed and non-detailed as it may

Torica figadings.	Periops to be devoted	PRACTICAL WORK.
I. (a) History of England—History of the land and not of the race—influenced mostly by the Geographical formation and ituation of Great Britain	2	
(b) Political, strategical, and commercial effects of the deography, internal as well as external, of the Islands	1 th	Physical Map of British Isles.
II (a) Britain before the coming of the English, \$30 B C110 A D. Period of unwritten History. Commencing with the Commencing with the Commencing with the civilised world. The Commencing with the civilised world.	1	,
(b) Roman Britain Cersar's invasion and account of Britain from original sources as far as possible (Cersar's Cullic War, Eks. 17 & V). Roman Conquest of Britain—Limit and nature of the Roman compation. Effects of their occupations and their departure. Compar- with the English occupation of India	2	Map of Roma Britain indication the chief roads.

the English, 410-979 A D.

1. (a) The English investor. (b) Their German homes Their Settlement. .

(a) The English after the conquest. (b) Kent and the conversion of the English. 3. The Strife of the Nations.

(a) The Supremacy of Northumbria and its character Celtic and Roman Christianity-Synod of Whithy.

(b) The Supremacy of Mercia, 685-825. Offa-

Map of the Euglish German homes.

> Map showing the settlement of English.

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B. The coming of the Danes and the Consolidation stages in the attacks of the North Wesser. Eghert and Alfred the Great—The work Results of the Danish invisions and settle The conquest of the Danish and the Wesser. Edgar and Danish and the	hmen The ri of Alfred ments	se of	3 Map showing the Danelagh.	
C The Tenth Century Constitution of Englan	ıd	***	1	
IV. England under foreign kinge 979-1216 A	D			
The Danish kings and the English Bestoratis (e) Ethelred and the Danes (6) The Strongle lishand the Danes, 1012—10163. D (6) Casou (2) Edward the Coefescor Harold II and the Coming of the Normans	between the E a 1016—1035 A	ing (Route of William I. Glencalogy of Harold II from Egbert,	
V. Manners and society of the age	••		1	
VI The Norman Rule, 1066-1154 A D				
(a) The four Norman kings.				
1. The story of the Conqueror—Feudshism, its a strong central government—William's civil and ec New Forest, Domesday book—William's character s	clesiastical pol	icy—	2	
2 William Rufus Ilis Government, a trri Anselm-First Orusade-conflict between the Kit causes-last days.	mny-quarrel ig and the Ba	with rons,	2	
 Henry I's wise administration—Itinerant 	jastices	***	1	
4 Stephen-Civil War-Anarchy-character of the reign 1 (English Chron-cle)				
Besides the work shown above, a line of time also which will be drawn by the pupils	5 A D	Conque	na of Julius Casar, 55—54 B.C. it of Sritain by Claudius, 43 A D	
will come under practical work.	154 A.D.	-		
The line of time covers a period of about 1120 years from 34 B C, to 1006 A D. A line I ft. in length may be taken and divided into 12 parts, each part covering events of a houndred years. Only events of historical importance are to be selected, as otherwise, the line will have to be overcrowded with names and will look clamsy.	254 A D 254 A D 454 A D 654 A D 654 A D 751 A D 854 A D 954 A D	Evacuation of the Romans, 410 A D. LADding of the Jutes in Kent, 469 A D. Synod of Whitby, 664 A D Treaty of Wedmore, 573 A.D Massacre of the Dance, 1002 A D.		
At present, I have thought it enough to	1 1	Battle of	Hastings 1068 A D	
draw one roughly, as it will serve my purpose		(Th. La	continued.)	
mell.		(40.00	S. G. Sterananian	

THE UNIVERSITY AND THE VEENACULARS.

PHANKS to the warm discussion at the last — meeting of the Scrate about the subject, the position of the verasculars in the corricule of attoder prescribed by the University of Madras has become one of the burning topics of the day. But as with so many other "burning topics" in this constrip, the issues involved are not clearly perceived even by those who are rigorously energed in the contournersy. Hence it as a well for us to know what are the real questions at issue, that we may form our opinious on the question and express them and thus help to create a well-informed public opinion in the place of the spurious article which passes for it. It is the sim of this paper to try to do this.

We are told that under the old regulations of the University, the vermeature accepted a promiment place from which they were heried down by the ruthless hands of the framers of the new regulations. This may be rhetoric, but is not trath. For the study of the vermeatures was more compulsory under the old system. Nearly 40 per cent. of the graduates of the University graduated with their second leaguage. A Sanakrit and they were perhaps the most brilliant graduates. Some other sideout took French, Larie, and other languages, at a sharkrit, and other languages, as their second language, three life having made the study of the vermeabless optional for the first time under the new regulations.

When the new regulations were first passed by the University, they made no provision for the compalory study of the vermentars at all the relevant of the provided them to a subscribed position among the optional groups of analytics. This fast, no durabl, detreets from the greationess of the plea wrough by the advocates in the Stands of the spream expites that the study of the vermentars has improved ander the preemt system. That may be a fact, but we do not owe it to the Scente but to the Corresponded of Madras who

introduced vernacular composition as a compulsor; subject in the curriculum for the Intermediate examination.

Thus the new regulations as amended by the Government would have made provision for the compulsory study of the vernacolars by all the sapirants for the degrees of the University—a thing which was not dream to under the old regulations. But no agilation was started in the Senate by some of those very Follows, whose enthusiasem for the vernaculars is now unbounded, with the object of introducing Sanakrit transitions as an alternative subject for vernacular composition and of reducing the percentige required for a pass in vernacular composition from 50 to 40. This fact is not very recitiable to the consistency of the enthusiasts for the vernaculars.

Hence, under the present system, so far as the University is concerned, the large majority of university is concerned, the large majority of university is concerned to the system of th

I do not refer to the position of the renactions in the school carriedism because the University has practically nothing to do with it now. The School-Leaving Cretificate Schome has almost completely appressed the Matricalsion examination conderted by the University. It myself strongly hold that particular stantion cought to be paid by the boys while at school to their versaculars. Hit has not done now, things ought to be meeded. Dat if they are to be, the proper sulbority to do so is the Government and not the University Contiously enough, the responsibility for the school curriculum, such as it is, is also laid at the doors of the University

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Having now described the present system, I may make an attempt to examine the charges made against it First, then, it is urged that the present avatem has reduced the number of students taking the vernsculars. But it is conveniently forgotten that a much larger number of students than under the old system learn verpacular composition. And it must also be remembered that those who study the verna culars-and they are not an inconsiderable number-do so because they feel genuinely interested in the subject. And it will be conceded on all hands that it is far better that a few such students should study the vernaculars than that a large number of them study the vernaculars because they cannot help it

Again, it is also proved that the non study of the verraculars will make our students denationalised. I do not know in what sense they use that word. If by that word they mean that our students who do not study the vernaculars will become less patriotic and more alien in their babits and manners than those who study them. I flatly contradict it-witness the hundreds of graduates in Sanskrit who never studied a vernacular book either at school or at college and who are no whit less patriotic than their contemporaries. And what is there in the vernaculars which is likely to make a man patriotic ? I challenge these enthusiastic advocates for the ternaculars to produce one genuinely patriotic passage from classical vernscular literature. But even granting for one moment that this so-called denationalisation is likely to take place, is it such a real danger ?

The question is one which must be frankly faced and answered. For an nowillingness to do so is hampering our progress in all directions. The question put in another form is the—Are we to continue to be picture-que, curious, in a word

to be the massum of the world, wherein people can see all grades of civilization from the fifth century before Christ? Or, are we to march forward on the path of pr gress and take our rightful place among the nations of the world? The question, put in this form, admits of only one answer. But the difficulty comes in when people refuse to see that this question is really the question about denationalisation, put in another form. Further he must be an enemy of progress in India who does not want that every unit of energy available in the country should be used for the spread of Western ideas which can be done only through the study of Western lateratures.

Bat by the word 'decatocalised,' they may mean that our students will become urrel gious if they do not study the vertuaculars. So much of cant has been tailed and written about the accessity of our students being so brought up that they must not cesse to be religious, that I'must beg leave here to express my emphatic protest against this attempt to mar the true deal of education. We ought to be more anxious to make of our students "boosst, maily, and useful citizens, than to make them glibly tail about the Dhagavad Gita and the Upanishads which have bailled the intellects of much matter meth and the mattlets of much matter meth.

Another cry which is raised against the new system is that, if our students do not study the ventuculars they will find it impossible to commoncate with the masses. There is no doubt that all of as want that our educated mus cought to be able to refinence the meases which they can do, only if they can talk to them in their own language. But the difficulty comes in as to the means by which this vary desirable objects is to be attained. It is fairly evident that a student who learns versucular composition must be well able to express his thoughts in the mother-tongon facefully and sourstely—I am only defining the art of composition—and certainly not

less able because he has not studied the classical works in his mother-tongue which are usually written in a language which, in the opinion of a distinguished Tamil scholar, can never have been that of the people. I will go further and say that the more a man steeps himself in the classical works of his mother-tongue-I speak only of Tamil,-the less easy it will be for him to achieve this object. I speak with some knowledge of the pedantic Tamil which our Pandits are never tired of neing. So, if what we want is that our students should have a working knowledge of their vernaculars sufficient to enable them to make themselves understood, the present system under which they learn vernacular composition is the best that I can think of, if certain necessary changes are introduced in the method of teaching the same.

I think I have now met fairly all the objections which are levelled at the present system. But there are certain positive arguments in its favour which I will advance. For one thing, I aver that our students, after having reached a certain stage in their educational career, should have absolute freedom to choose the subjects of their study. In so far as the present system secures this liberty to the student, I claim that it is an improvement on the old. And any attempt which is made to increase the scope of compulsory studies is an attempt to set back the hands on the clock of educational progress in this province. For obvious reasons, the study of English most be compulsory as also that of a scientific subject. Hence it is evident that, unless the student is to be relegated to the unenviable position which he occupied under the old scheme, the study of the yernaculars cannot be made compulsory.

Again, if the study of the vernaculars is really so exchanting, so useful and so necessary as it is claimed to be by their enthusiate, we can well raly on the students and their goardians to control that a large number of students take to the shudy of the vernaculars. If they do not do so, then

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1 Pold that it is a strong argument that extravagant claims are made on behalf of the vernaculars. But there may be others she want this, though the study of the vernaculars may not be all-important; some at least of our students should study them. To them; I am sere, the answer, hinted at in an earlier part of this paper, that it is better that a few who have really a tasts for the study, should do so, will appeal.

Again, the repreach has been east upon as, not without reason, that the education that has been imparted to as for the last fifty years and more has not produced many scholars amongst as who, be their reastness, have contributed to the knowledge of the world. If that repreach is to be removed at all, our students must begin to specialize fairly early so that they may go not of their Colleges well equipped to carry on researches in their chosen foliad of knowledge.

Again, we, in India, are all looking forward, with longing eyes, for the day when India will have a common language. I know I am treading on delicate ground, but I venture to express my opinion that English has as much chance as any other language of becoming that one language in this country. And I can imagine no better fate for India. If the day comes when Euglish is the common language of the people of Indis, the day of the political and social regeneration of India cannot be very far from then. Such being my firm conviction, I strongly deprecate any attempt to reduce the importance of the study of English in the corrientum. And the natural result of the agitation for the compulsory study of the vernaculars will be that.

There is one consideration which has been overlooked by these gentlemen and which horne a corrious light on their, appreciation, of the relative importance of the languages of this land. It will not be seriously disported that Stackfit is older than any veroacolar in this country and that all the Dravidin vernacular literators with which alone we are concerned only have drawn their inspiration mainly from Banskrit. Again, the study of a classical langu age has been recognised both in Western countries and in other Universities in India as a valuable part of a sindent's educationwitness the position of Latin and Greek in the older Universities of England and the position of Sanskrit in the Calcutts and the Bombay Uni versities And yet, what do we see here? Not a word is said about the necessity of studying Sanskrit. On the other hand, it has been made abundantly clear by how that the enthusuasm of these advocates for the vernaculars does not extend to Sanakest. But if our object is that the education of our students ought also to include an aconsintance with their national ideas and ideals. I can imagine nothing better calculated to achieve that object than a study of Sanskrit. And if Sanskrit can be introduced into the compulsory portion of the curriculum without affecting the position of English therein, I personally will vote for the change

It is an irony of fate, that while civilised construes all over the world are preferring the useful in education, we are the osing the pictu resque ; while they are preferring the progressive, we are choosing the retrogade, and while they are preferring the active, we are choosing the contemplative The cry all over the world now is for scientific education and more of it. But we turn our eyes backward and wish to resuscitate languages and literatures which cannot hain us in our march of progress but which may retard it We should wish that as large a number of our students as possible abould take to the study of the human, physical and natural sciences that they may help to create in this land the true scientific atmosphere which is the neeres am of progress in the sadgetrial, edu cational or social spheres of action. But our would be adventional experts want per students to discuss the beauty of women, the fatnesses of petty Rajas, or the inaccurate histories of kings and kingdoms or the perpetual intervention of the thousand and one gods of the Hindu mythol ogy in human affairs, in an impossible language Such, at any rate, is the theme of most of the classical works in the Tamil language

I should consider myself hadly missinderstood, if I am taken to say that the present system cannot be improved. I strongly hold that it can be and that it ought to be. And I have the authority of some of the members of the now famous Committee of the Senate to state that the Committee itself feels that some improvements will evel long have to be made in the system. I am only insisting that the principle of compation to the strong or to the study of the versionalism must go.

As I have said in another part of this paper, the study of the vernaculars at school must be considerably unproved. Apart from the reason already advanced that our students must have a working knowledge of their vernaculars, alon hold that if the remoculars are to have a fair chance, the students should have an opportunity of judging for themselves as to the desirability of studying them which they will not have, noises they are infroduced to the study of the vernaculars while at achool. This paper is not concerned with the means by which this is to be effected, for it is a matter which rests with the school subscrites and the Education Department.

But, as regards the subject of varnacular composition in the curriculum of studies for the Internedate examination, the University can and ought to effect some improvements in the method of teaching the same things such may be suggested but perhaps the most effective way of improving it is the prescribing of certain text books which the students must be made to study with the same attention which they lestow on books prescribed for sconders laid study in Linghish This can be assured by including questions bearing on the subject matter dealt with in those kooks in this

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There is one consideration which has been overlooked by these gestlemen and which throws a curious light on their appreciation of the relative importance of the languages of this land. It will not be seriously disported that Sasakiria is older than any versacalar in this country and that all the Dravillaw versacalar literators with which along me are concerned only

of existing institutions At present, the edu cational activities of India are-with certain very commendable exceptions-mainly confined to the Government and to such States as this of Bhaynagar the great mass of men in the edu cated professions and the land holding undustrial. and commercial classes hardly participate in such activities Of course the Government as also many of the Native States are not doing as much for education as the Governments say, of England France and the German Empire do for their peoples, but I am sure I am not far mistaken in saving that the proportion of private and local expenditure on education to that of the State will he found to be much smaller here than in the countries I have mentioned To take one instance only-a rather extreme instance it must be sadthe London County Council spent last year about six million pounds sterling on Education, out of which the receipts from Government came to about Il million, the rest of the cost falling on the general body of the rate payers of London The rate for Education, which was #d in the nound when London was first given complete local self government, now stands at the high figure of 1: 91d in the pound . There are many directions in which cities and corporations and united bodies of rich and educated people could work with profit to the country and credit to themselves in the field of education Elementary as well as indus trial and technical schools are required to meet local wants and to elevate the condition of the masses, and denominational schools for primary and secondary education on a religious basis are also needed amongst many communities Seither the Paramount Power nor the authorities in Native States can so thoroughly understand the local wants of any place or the needs of a small community as the people themselves, and in the A present state of our country it would be neither expedient nor wise for them, to institute religious or even moral matruction on any denominational basis I do not want to belittle the efforts that pur people have already made in the cause of edu

cation, but I heartily wish that such efforts may be more continuous and more strenuous. In this connection I may be permitted to congratalate the citzens of Bharmagar on their formulating a small but sound scheme of industrial education to commemorate the great certices rendered to this State by the Homonrable Mr Prabhashanker Pattagi

In the second place we require the educational institutions which we already possess to be more efficiently and more intelligently managed. There ought to be greater co-ordination between our arms and the system of education and adminis trative method which we adopt and something must be done to check the huge waste of intellectual effort on the part of our boys on account of our present teaching methods which are not only unsuited in many ways to our circumstances but which would in great part be considered effete under any circumstances. This requires an alert watchfolness and a sound educational policy on the part both of Government and of the educational bodies formed by the people, it requires also-in a greater degree-the reform of the teacher in almost all grades of schools Something may be done to attain the latter end by instituting Teachers Schools and by selecting as teachers candidates who give promise of real teaching nower Bot when all is said and done the fruitfulness of our methods will largely depend on the personality of the feathers we employ, and this personality can reach the needed standard of excellence only by internal reform We want our teschers-both elementary and secondary-to form a body of devoted persons who would keep up their sest for education throughout the seried of their employment who would be willing and eager to master their subjects as far as their power can go to amprove their deficiencies in the manner of teaching and to find out methods which have been approved by long experience in countries more fortunately circumstanced For these purposes it is Decessary to institute Teachers' Societies and

Teacher's Libraries ererywhere in the lead; and condially as I welcome this Students' Conference, I cannot help regretting that there is not held side by side with it a Teacher's Conference which could help us in strengthening the position of our teachers, in fortifying their courage in the discharge of arduous and often thankless tasks, and in improving their methods which they have been forced to adopt mostly at haphazard.

It is not relevant, in my opinion, to enter here into any disquisition about the definitive property and nature of education and I will not discuss at any length the difficult question of the content to be assigned to the term. If only a few of the opinions on this second point were taken and put together, it would be found that almost everything fundamentally effecting man and his affairs and his activities has been at one time or other included in the term education. Besides connoting the general intellectual development of the child and the adolescent boy, the term has been need to signify a high degree of cultivation of literature and of the arts and sciences on the part of the young man. Elucation has also, in some quarters, been identified with knowledge of the technical arts and mastery of industrial skill : and those who take this view of the goal of education would like to see the finished products of their system taking up at once some industrially, economically or professionally useful pursuit. Others again have laid chief stress on the formation of character; and would desire the young man of education to take his place in society as a law-abiding, Godfearing citizen or to form a healthy political unit of a harmoniously growing nationality. If only a small part of these objects, and others such as physical culture, more to be realised even approximately, it is evident that the chief portion of the resources of the State would have to be devoted to the carrying out of educational policy alone, and the leaving age of the pupil would have to be very considerably increased. We should therefore rather take our existing educational

system, defective as it is, as the fundamental fact of the situation, should see in what directions it requires reform and extension, and it to desire ways and means for such urgently required changes as would not either severely tax the resources of the State and the peoples at large or require our present methods and prevent teachers to be discarded wholly or even in great parts.

Coming now to the educational activity with which we are immediately concerned, I have to observe that the main purposes of such gatherings as this are evidently the promotion of fraternity and good-fellowship amongst students and the instilling into their minds of some idea of their membership of a society to which they owe definite duties. These objects of education, which may be said to form the social or perhaps the national side of the content of the term, have been emphssized by a school of teachers which has lately come into prominence; and one of the mest eminent of them, Prof. Bucken of Germany, has laid it down that the great aim of education should be " to treat the pupil as one who is called to the task of a good life and the bearing of high responsibility." But this aim bas also been steadily kept in view by almost every great writer on the subject. Herbert Spencer is never weary of criticizing the ordinary school and college curriculum for its utter failure to recognize that the educated pupil was destined to become a true citizen and to carry on the national life of the country. Bain remarks that" as the supports of life and the pure sense agreeables and exemptions come to us in great part through the medium of fellow-beings, the value of the social regards receives from this cause an energous augmentation," "It would appear strange," he therefore says, " if this motive could ever be overlooked by the educator, or by any one; yet there are theories and methods that treat it as of inferior account." But almost all the older writers, and Eucken bimself-unless I am greatly mistaken-ocunsel the instruction of the pupil in such sentiments by the teacher bimself ; and lay it down that this should be done by in direct methods and by collateral efforts, so as not to interfere at all with either the mental develop ment of the pupil or the moral discipline of the school Thus Bain observes-" the intense emotions, from the very fact of their intensity are unsu ted to the promptings of severe culture" He dwells on the beightening effect on the pup ls mind of the general multitude, and says that " any effort made in the sight of a host is by the circumstances, totally altered in character, and all impressions are very much deepened i" and concludes that " if this stimulus were always to coincide with high mental culture the effect would be something that the imagination hardly dares to shadow forth It is, however, a power that may be propiliated by many different means, including shams and evasions, and the bearing upon culture is only occasional " Hence such thinkers, in the fear of producing only superficially educated pupils or pupils who would assume the airs of sanctimonious little men of the world, would confine the impartany of such education almost exclusively to the teachers' part, they either do not mention any great efforts in this direction on the pupils part or view them with distrust and disapproval The extreme position on the other side-the doctrine of the social education of the pupil by his own social efforts-cun be expressed in the concre language of Prof Dewey: "The only way to pre pare for social life is to engage in social life. To form habits of usefulness and serviceableness spart from any direct social need and motive, and spart from any existing soc al situation is, to the letter, teaching the child to swim by going through motions outside of the water. The most indispensable cond tion is left out, and the results are corre epondingly futile "

It is not without d ficulty that a choice could be made between the opposing methods of derel oping the social side of education which I have here roughly aketched But I believe, looking patherularly to the circumstances of our country,

that it would not be necessary to do so, and that the best results could be achieved by duly combining the two methods as far as possible. The teacher notwithstanding the fact that his ordinary duties are engrossing enough, can yet do something to inculcate the high responsibility of social life by showing that he has a high ideal of his own duties in the corporate life of the school By a thorough mastery of his subject, by practising absolute justice between boy and boy and by employing patience and fact in dealing with the backward and the refractory, he can set before his pupils the example of a good life and heighten the mo al tone of the society formed by them, which is distinct in kind from family life in the range of its social activities and in the power of calling forth the corresponding virtues. The teacher can also appeal to social and patriotic motives as occasion arises in the course of his lessons. The heads of schools also can contribute something towards the same result by the provision on favourable occasions of direct social tasks which are commensurate with the state of development of the pupile mind The allotting of joint lessons in subjects of study as well as experiments in subjects not in the curriculum, games and social and other gathern ge may be mentioned as examples. Fach school should try to develop its distinctive social life on its own lines, and on occasions like the present the various lines may be brought together for comparison, with great intellectual benefit both to teacher and pupil. The earlier the child is taken up for social education the better will it be for the development of the social virtues, for afterwards the growing difficulty of the subjects of study and their precialization in the higher forms of schools or in longistrial and technical institutions tend to serarate student from student and make the task of social unification proportionately harder. But in all class teaching in the matter the appeal should be indirect . any direct lessons on the civic virtues besides being generally devoid of interest to the young boy, are apt, in my opinion, to binder the proper development of his powers of observation

and thinking. Formal social meetings also require great skill and tact on the part of the heads of schools to be of real use to the pupils.

The great stumbing block in the way of national harmony and social co-operation is aloofness of mind or intolerance of spirit, the presence of which is often manifested in a spirit of intense though perhaps illiberal fondness for one's peculiar ideals and manners. Such alcofoess or intolerance frequently originates in misunderstandings. which many often be innocently conceived and the very conception of which is sometimes not even consciously entertained. It is to my mind the primary duty of every citizen of a State to try his best to remove such hindrances to unity by cultivating a broad and imaginative sympathy with other units of the State who may happen to belong to different provinces or castes or creeds; and I do not see why this principle should not be acted upon in our educational policy. I should conclude that, with the saleguards which I have pointed out above, the practice of social education may be introduced into our theory even almost to the extent suggested by the words of Prof. Dewey. In the case of our land, the need for social co-operation in all grades of life is forther accentuated by the rast extent of our country and its political and social conditions for a thousand years before the final establishment of British supremacy. We cannot minimize the fact that India is in many respects a continent, and that to get a harmoniously-welded national life in it is a matter of considerable difficulty. But the events of the last generationare full of encouragement to those enthusiasts who are hoping and striving for social and political unity. The benign rule of the British Government for over a century has gone far to heal the wounds of the previous strife of creed against creed and of province against province ; and contact with Western civilization has gone far to strengthen at any rate the political and social ideal of nationality. This awakening movement would. I doubt not, have come to us in the fulness of time ; but I do mean to say that British methods of administration and British views of general

education have evidently strengthened and accontance it. If therefore we attrie with real and with tact the idea of social harmony and national unity, which we feel growing so strong in our minds at the end of this generation, will undoubtedly be left stronger in the minds of our countrymen at the end of the next generation.

As I have said the practice of social education through the direct sgency of the pupil himself is a product of late growth, it has come into prominence only during the last twelve years or so, and is even now regarded with distrust by some eminent educationists. We should therefore not be too sanguine about the immediate results of such conferences; and, as a necessary corollary, not forget our goal and suspend our efforts from one year's end to another year's end waking up only for two or three days. Persevering and strengous efforts will be required if the movement is to be carried up from the theoretical stage to a stage of practical fruition however meagre; and the orgunizers, on whom will be thrown the burden of making higher and more intelligent efforts year after year, will have to be careful that the movement flows in its proper channel and does not But the results impede mental development. promised are so wast and of such vital importance to our social unity and our national uplifting, that the efforts appear worthy the making. If even in England and France the movement is considered by many to be more the outcome of a dream than a reasoned reality, let us say in the rousing words of Prof. Findlay, that it is a dream which at any rate " provides a ground of faith ; faith in a social reform which finds its surest and speediest barrest in caring for the young ; faith in the coming race who will take up the burden of the ages at the point where teacher and parent lay it down." In the faith then, that this gathering will help ever so little towards the development, in the mind of the younger generation of the social ideal on whose fruition depend the strength and beauty of national life, and that it is merely the precursor of stronger and more frequent efforts in the same direction, I beg to declare this Conference open.

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EDUCATION IN THE MAGAZINES (INDIAN)

Educational Progress in the United Provinces.

Between April 1, 1907 and March 31, 1912. the total number of educational institutions in the United Provinces increased by 921-from 15.642 to 16.563. Public institutions contribu ted only 61 to this increase. The number of scholars increased by over a lakh-from 6,06,174 to 7,12,000, the increase being shared by both public and private institutions The Director of Public Instruction says that considering the lack of funds for primary education and the auccession of calamities that have afflicted the Provinces, it is a matter of surprise that the upmbers have risen as much as they have done The percentage of scholars to the population of school going age has risen from 8 47 to 10-06. For boys it has risen by nearly 21 per cent from 1533 to 17 79, and for girls by '51 per cent from 1 16 to 167 Such enthusiasm, if the word be per missible, as these figures may generate in one is, however, immediately checked by what Mr. de la Fosse says in the very next sentence, tiz, 'It should not be overlooked, however, that the real increase is not as great as it appears. for the population on which the percentage has been reckoned this year has declined Of all districts Benares has the largest percentage of attendance of boys of school going age, the figure being 4233 The highest percentage of girls at school is claimed by Agra with 516, Dehra Dan and Nains Tal, where the percentage is inflated by the number of European boarding schools, being excepted In foorteen districts over 20 per cent of boys of school going age are at achool, while in nineteen the percentage of gurla is still less than one

The total expanditors has rason from R.-12 50 50 to Br. 10,70,283,0 or by 45 per cent, and the cost per head of population has increased from 2\(\frac{1}{2}\) anns to ab ut 4 Again, less the numary reader run away unduly sletch, Mr de Is Fouse discloses the from fact by obsering "Bet the figures are deceptive, sloos Bet the figures are deceptive, sloos the normal lecrease by a great from the Gorean ment of India of 13 likbs, a large part of which was catually spent before the close of the 'period' Collegate education absorbed nearly free lakts more than to the persons fire years.

Thirteen labbs more was spent on 'general' schools, while the expenditure on special schools rose from Rs 300,152 to Rs 5,41,401 There were considerable increases under duece tion and inspection Scholarships absorbed Rs 80,060 more, 'But the most remarkable 'increases are shown under buildings and 'apparatus.' Expenditure from public funds rose from over Rs 49 to over Rs 67 lakbs an increase of 37 per cent 'Private expenditure 'is larger by more than a half, and the income from fees grew from Rs 1351,184 to Rs 20 50 005, representing about one third of the total direct expenditure. Let this be noted by Angle-Indian critics who in ignorance of facts talk of cheap Indian education and the necessity of making the parents pay more in the shape of fees, oblivious of the strain on their often meagre resources by the scale of fees now in force. The direct expenditure on collegiate, eccondary and primary education last year was R. 13 91 901. Rs 47,06,212 and Rs 5,44 401 respectively The comparative smallness of the last figure shows bow much room there is for larger outlay on elementary education. While the expenditure on collegiate education is one fifth and that on secondary education is so much as three fourths of the whole, the ontlay on primary education is a meagra one twelfth of the whole. The recorring grants to aided colleges have increased from Rs. 85, 157 to Rs 1,44 460. The direct expenditure on Government high schools has risen nomi nally from R . 48,700 to Rs 7,38 200, but this schiefly owing to the provincialisation of District Board high schools and the resumptions made from District Boards to meet 'the charge' The recurring expenditure on Furopean schools has risen from Rs. 1.91,258 to Rs 2 96 167 The total annual grants in aid for English schools have increased in five years by the comparatively amail aum of Re 50,000 odd, the respective figures being Rs 156,000 and Rs 206 514 four lakhs were paid to aided colleges during the five years as non recurring grants. For verna cular education the following recurring subventions have been made to Datrict Boards -Rs 10 000 for additional Sub Deputy Inspectors. Rs 6000 for re-grading existing posts of Sub-Deputy Inspectors, Rs 10000 for re-grading vernscular secondary school teachers and Rs. 25 000 for improving the pay of primary school teachers In addition the Boards received a non-recurring grant of Rs 50,000 for buildings

In 1911 12. Rs 12,91,000 non recurring, was given by the Government of India for education of all kinds, a recurring grant of Re 7 lakbs has also been made; the Government of India have further given Re 60,000, recurring, for improving the pay of secondary sided English school teachers, and a non-recurring grant of Rs. 31 lakhe for college and school hostels. Besides. the University has got Ra 3 lakhs, non-recurring, and Rs 45,000, recurring, to enable it to enable itself for teaching and research .- The Leader.

The Poetry of Childhood-The inenuncal address of the Teachers' Associa-

tion of the Teachers' College was delivered at the College, Seidapet, by Mr. P. Seshadri, M.A., on " The Poetry of Childhood," Mr. A. Mayhew, Principal of the College, occupied the chair,

The lecturer said that the study of a child's temperament and the atmosphere in which it had been reared, must have as much interest for the teacher at its psychology. It must be a great inspiration for him to know that the childrep entrusted to his care have roused the raptures of many a poet. Even a corecty examination of the world's poetry was enough to convince one of the education that childhood had received at the hands of poets. The theme was as old as Homer. There were some who had devoted special attention to the study of poetry and prominent among them were Blake, Wordsworth, Stevenson, Swinburn and Longfellow, The extent to which the love and worship of the child bad been carried on in poetry might be indicated by Lowell's remarks which preached love, hope and neace. The innocence and beauty of childhood, their auggestions to postry had been appreciated by Tennyson, Longfellow and Blake. Wordsworth and Stevenson gave an appreciation of the poetic nature of the child's mind itself. The lecturer then narrated the names of poets who referred in effective terms to the feeling, affection and triendship existing among children. The earlier poets, even Shakespears among them, gave a gloomy picture of the school boy, but with the introduction of new methods in school there was batter appreciation of the pleasures of school life. Hood and Whittier were particularly sulogistic in their references. There was very often a pleasure expressed that they should get back to school and be boys again. Rood went so far as to say that he would do it on any terms. and that he would do kies the rod raised to The lecturer concluded by referring beat him. to the following lines :-

> Dreary place would be this earth Were there no little people to it : The song of life would lose its mirth Were there no children to begin it,

The Reading of Novels, and Some Results.

The Wesleyan Lecture Hall was crowded to overflowing when Mr. F. W. Oginton-Anderson, B.4. Professor of His Highness the Mahareja's College, delitered an exceedingly chaste and instructive address on "The Reading of Novels, and Some Resolts." The giet of the discourse, however, was the speaker's powerful and convincing recommendation of the truly ideal novel, as a wonderful means of diffusing much learning and understanding which the ordinary protate methods of study often failed to accomplish. It was, of course, necessary to exercise a certain discrimination in the choice of the book, and in this connection he mentioned the names of George Eliot, George Meredith, and a few others whose names came to him as those writers who had largely contributed to the many triumphs of European literature. When one walked abroad for pleasure, it was usual to chose the open spaces in the country, in preference to the congested areas of the bazzars and lanes, and the same principles of judgment applied to the choice in literature, where, with those who sought to derive benefit thereby, the selection was devoted to the quality of the book which could be safely relied upon to impart purity and wiedom, than the vicious volume which contained much of material that was of a vapid and unworthy nature. There had, be said, been a great growth in Hindu literature. but its progress generally had been partial and inadequate. Reverting to his impressions of the really perfect novel as being an ideal medium for instilling true knowledge, the speaker added that he was convinced that it possessed far weightier and more reliable influence than many pieces of advice which were tendered from insincere and ineffectual pulpits, and sermons which were often preached to emply pews.

Lord Carmichael's Advice to Students.

His Excellency presided at the annual prize-giving of the Darjeeling Government High School. The Hen. Mr. P. C. Lyon, Call the Hon. Nawab Syed Shamsal-Hada, the Hon. Mr. Hornell, Director of Public Instruction, and a large number of ladies and gentlemen were present. The programme opened with recitations in Bengali, Lepche, Tihetan, Sanekrit, Nepshi, and Hindi. Babu Basanta Kumar Das Gupta, the Headmaster, then read the annual report. His Excellency in addressing the students asid:---

This is not the first time that we have met: I look back with great pleasure on the day when hat year I came and saw you all bustly at work, no your classes. What struck me most then, and what detries me most now, as the remarkable unlaws of detries me most now, as the remarkable all wonder whether any other achoot in Bengal an boast of as many—I doubt it. This great can boast of as many—I doubt it. This great you have a support of the secondard sources of interest and joy to me seer succe I came bett.

So far as the school anthorities are concerned however, this diversity of races must bring with it many difficulties, for each race has its own language.-Basanta Babu has told us in his report that no fewer than 8 languages are taught in this school The excellent programme of reci tation which you have just gone through has shown us how successfully you have overcome these difficulties. I never before listened to so many languages spoken in the short space of balf an hour I am told that there were other boys quite ready to go on reciting other meces. but that for want of time their efforts have had to be kept for another occasion I am sorry in some ways for this, I fear that they may be disappointed, and I am sure I should have liked listening to their recitations if there had been

Although I do not understand the different languages I am glad that your recitations were given for the most part in the mother tongue of those scholars who gave them, for this is evidence that in the school the vernaculars are not being forgotten I am a strong supporter of the view that a sound knowledge of one's mother tongue is the best foundation for all true education is a great thing to be proud of your mother tongne, and to be able to speak it well and to stand up for it against all comers. It increases a man's pride in his race and country I am proud that I am a Scotsman, and hope that each of you boys is likely proud of your nationalities whether you be Nepals or Bhutis or Bengals or Leocha or Tibetan, whatever other race you belong to

A Governor when speaking to boys at a principal salways expected to give them good advice, so I must not leave this part out of my address to you. My advice to you is to make the fallest use you can of your time at chool school advication as worth having for its own and the salways of the s

You know what happens if you get nothing to eat I will tell you what happens if you do not collitate your mind — Your powers of reasoning and your jodgenets got or min, just as your body goes to run without lood, and a man who bad natural eleverness, but has neither reasoning nor judgment, is a dangerous clinate in the work, and only you often comes to a had and if you have not to be a superior to live Remember, then, there is no knowledge which is not power.

Learn as much as you can about all sorteof things and the world will become to you a per petual sourse of interest, surprise, and joy, and learn as much as you can about all sorts of men, as as to sympathies with others and to feel for others in their troubles. If you learn these things you will have a happy and useful life

A liberal education is the greatest blessing which any man can have I cannot end my remarks better perhaps than by quoting to you some words of the late Professor Huzley:—

"I hat man, I think, has had a liberal education who has been so trained in youth that his body is the ready servant of his will, and does with ease and pleasure all the work that as a mechauism, it is capable of , whose intellect is as a clear, cold, logical engine, with all its part of equal atrength and in smooth working order, who like steam engine may be turned to any kind of work. and spin the gossamer as well as forge the anchors of the mind , whose mind is stored with a knowledge of the great and fundamental truth of Nature and of the laws of her operations ; one who, no stunted ascetic, is full of life and fire, but whose passions are trained to come to beel by vigorous action with the servant of a tender conscience who has learned to love all beauty. whether of Nature or of heart, to bate all vileness, and to respect others as himself '

National Character and National

Under the auspices and at the Langural mode, ing of the St. Joseph's College Union, the Rev Allan F. Gardner, Principal of the St. P.G. College, delivered as informing and suggestive address on "National Character and National Leterature," If Gardner commenced the address with a short reference to the common Arpan ancestry of the languages of Modern Europe and of the East as established by comparative Philological research. The two mans European slocks within the scope of the selected polyect are the Keitu and the Tections, The difference are the Keitu and the Tections, The difference

in grains between the Keltic and the Teatonic mess is entraced in their respective literature. Some six entraced in their respective literature, and the second of present of the second of present of the second of present of present of present of present of the second of present of the second of present of the second of the second of present of the second of the se

The English language, brought over the chappel by bands of Tentors from North-Western Germany, 14 of the Tentonic -or more precisely. Low German-stock in the Aryan family of languages. In course of time and under diverse infloences, the English language has lost its troublesome inflectious, and attained its present degree of development. The assimilating capacity of the English language has been remarkable. The any ival of Keltic terms, the influx of French words (Latin or Romanic in origin) during the Norman invasion enriched the essentially Tentonic language and increased its adaptability to a delicate turn of thought or dexterous manipulation of phrase. The intermingling of these elements has contributed to the vigour and vividness, imagination and humour associated with English Literature. Wealth of idiom. volume of vocabulary and capacity of assimilation-the true signs of growth, have rendered the English language admirably spited for the expression of subtle distinctions in thought,

The predominance of the Tentonic or the Keltic characteristics in the writings of certain great makers of English Literature furnishes an interesting subject for contemplation. The excellences of Chauser, Spencer and Shakespeare arising from the knowledge of Nature, the delineation of character, and gift of humour are apt to cover their disregard for general effect and their lack of the sense of wholeness, Milton stands, like his own spic, in splendid isolation as an individual genius intent on the creation of general effect. Though not valuable as a study of character or store of humour, the poetry of Wordsworth reveals intenss love of Nature and an almost prophetic fervour for the interpretation of her teachings. Akin to Spenser in merits and failings, Alfred Tennyson has wrought marvels in the language and his skilled art has chiselled sentiments into the flawless grace of barmonious numbers.

Keltic fire and passion has found away in the sphere of elegance and even to-day the speeches of Irish members on exerting topics serve to

enliven with many a flesh of wit and epigram the proverbially long and dreary Parliamentary discussions. Unrivalled for elequence, alert in eneculation and comprehensive in perception, Edmund Burke represents in himself the excellences and achievements of the Irish temperament. The amiable Goldsmith with his versatile genius may also be mentioned for his essential contribution of the element of gennine " pathoe" to English Literature. But the defects of these very qualities should not be overlooked : Saperficiality and passionate enthusiasm are too often the besetting dangers of Keltic ardour. Thus national and racial characteristics find shape and expression in Literature through the centuries, although some allowance must be made for the marked individuality of rare genius. Of Literature in general it may be said that it should derive elrength and sustenance from the realizations of Truth, Beauty, Parity and Faith. .

(FOREIGN)

Education and the Future.

"Chaotic, inefficient, and ill-spited to the temper of the times and of the country in which we live: out of joint with the industrial needs of the times"—such are the views of Dr. H. B. Gray, a scholar and educational authority whose knowledge extends from Winchester to Toronto.

If one about were sound, a new public, a new nation would arise in a fore years. If or nationaries acculined the process and fitted men not only for extital profession, but also induct them with real colture and a sound business training, we should once again lead the wentarining to the sound once again lead the work—and this not only in a monetery same, but regard character and grift. But what are required character and grift. But what are required to the sound once and the sound of the sound

For instance, the seven great public about exbeds exbraced in the survey of the Rubic School commission of 1801 are, with the School Commission of 1801 are, without the survey of the survey of the Rubic School Commission of 1801 are survey of the survey

tenus in the position of hotel keepers, and derive most of their scholastic income from this source

In view of this somewhat nopleasant commer cial fact one objects the more to the idea that beautiess education (in combination with literary education should be regarded contemptionly No nation can despise it sown means of subsist ence—a nation of abopkrepers were better than a decadence of scobs

One despairs of a condition of things such as this -

The license with which (or is another sense of the word, without which) any checitant one of up a brass plate to advertuse his establishment as "a Preparatory School for loung Genilemen," and actually carry on fiourishing trade in boy a much and books, would not be tolerated up any other profession or in almost any country in Larope, It is grave scands, in English education

One does not believe for a minuse that the profession is dishonest. But what would one say of a fleet in which each ship was a privateer run for profit rather than a navy built for defence Lither boys are crammed in a minuser that Squeers himself would have repudiated, or they follow in careless fashion the whims of a crank

To sum up, an Empire whose component parts are duparate and so widely a sundered in ethnological and geographical conditions a demand for its Covernment and extinces by por of men equipped with the stimost vereathiry, to robustness and originality—a condition of the condition o

Our professions and trades need men not spoilt boys and walking encycloradias

The public achools and now the Connoll Schools are to a great extent into the envalues of a natiquated University system. In their real for classes learning the latter forget aren ideas of Plato. Their curriculum proceeds on the lines that the world needs tooling but curstes and school masters. Admirable as these men may be, be world needs statemen, bankers, merchants, and organisers imbaed with good sense and origin saity so that they can lead the army of labour to the boble victories of peace. The idea that course of bears as training (any), technical training alroy could prevent a men taking a cultured dig thi neltera is foolish as to be begood belief Are not our leading authors not University used for the most part? The battle for culture isself.

depends upon University reform. True, a long course involving classical culture is not required but a few doses of classical cram present a nox ious and sinister bar

We have not yet found a practical way of uniting book learning and hand learning -

The chief defect, however in "Modern Side" redeating was the usessificense recognition of the escentific occupacion between twice the lattle sitemple has been made, except in the last isn years, to include manual work in the orthodox carrection. Carpenters because were no doubt fitted up in many schools for the relief of "practices and the contraction content that the contraction from the constant tyrangy of non quadratic from the constant tyrangy of non quadratic games. But these were chiefly projected and ercouraged in an ambiter push.

One cannot ignore the need for practical framing Why, for instance, should a child learn from books, and only when he has finished that side of his education, turn to the framing of the hand? It is as absurd as it would be to learn all history for two years, then spend two years on geography, and so on

The Higher Learning

Miss Margaret J Tule, MA, Principal of Bedford College for Women, writes in the Daily News and Leader —

Many movements in the list fifty years have helped forward the progress—or as some though subject forward the progress—or as the helped forward the process of these, none have been more rapid than the spread of the higher forms of learning among classes to whom these were once denied Fifty years ago a borrecenty man, or as it was more fashonothing polena, a 'Variety' man, was a man who are subject to the process of the pro

Not as a confined within the presences of two mediumal towns. Lundon has its great terming University as well as its earlier system of granting externed degrees. Such of the great Project Conversity as well as its earlier system of granting caterned degrees. I such of the great Project Conversity and white there new seats of largering up as to obtain the seather of the project of the state of the control of the seathers, they are by the lowest of the free and the value of these characters, they are by the lowest of the free and the value of the scheduling propried publical authorities, open to all the youth of the long should now he are fitted to profit in them.

If this advance has been marked in the care of University education in general, it is so onehundredfold more in so far as women are concerned. Or, rather, it is not a question of advance, but of the coming into being of that which was not. Fifty years ago a woman who desired to learn had to manage as best she could and depend upon herself or upon the knowledge, kindness, and leisure combined of her friends of the happier sex. Girton, Newpham, and Somerville were still an affair of dreams. Only in a humble way in London, at Queen's College, in Harley-Street and at Bedford College named from the Square in which it stood, there were classes for girls and woman who wished to carry on their studies beyond the ring fence of mere accomplishments; while at Cheltonham Miss Beale had already started the college which was to set a standard for girls' echools over the country.

To-day all the Universities of England are for women who desire to study in them, though Oxford and Cambridge still guard, with pealous care, their dayers, their membership, and their Care, their dayers, their membership, and their Care from the invader. And if the women stadents of Oxford and Cambridge do not yet amount to a many as 1,000, this number is more than treblack in the Universities of Lindon and the provinces.

As with men, so with women, the trend of this advance of the higher learning has been democratic: though never has it been in their case an affair of class. At first, within the reach of those only who could at least afford to reside at the college chosen; now, in the newer Universities, where the day students for outnumber the residents, where the County or Municipal Authorities provide a well thought-out series of scholarships from school to college, the poorest may share with the women of means all the good things which a college has to give. Nor are these few or wanting in value. Indeed, if happiness were a thing that could be computed I think the sum of it experienced by women students in their three college years would be found far to ontweigh that of any other group of persons during the same space of time.

Kindly issobers whose learning they may shore and strive to arproximated of their own aged to the recibility for their own aged to the recibility for their own aged where their states can bare full acope sname laws on which to play river or lake on which to row; shady walks to pace to converse—all those things together with quiet for those who sake it have been for many years the portion of the happy develors at the Women's Colleges of Oxford and Gambridge, and at the Royal Hollow

way and Westfield Colleges in the University of London.

Now in the heart of London itself Bedford College is able to grant to day students as well as to residents these special pleasures of spacious grounds, of water, lawn, and tree.

But the college statem does not only look bett opnoher undergraduate days as those in which the bear the most happy, but often also as the sea the most happy, but often also as the sea the tender of the first time, purhaps—learned in he most good. She has sucked to the resilities of life. She has—for the first time, purhaps—learned in he many ways men and women may differ from one another in faith and thought and set on any desire the same good. She has found out that it is more important to thick rightly than to seen a smart hat. She has—in short—begun to put a true value out the things of life.

How to prepare a Speech-

Mr. Atthur Bourchier, M.A., the well-known actor-manager, has anticle on "How to Frash and Daliver a Speech" in the second of colors, just out, of Mr. Fox Davies's "The Book colors, just out, of Mr. Fox Davies's "The Book possing," it is in everyday life, according to this authority, that the foundations of success in the art of speaking must be laid:

Set your ideas, your impressions, your festings in order. Think of certain facts, and weave them into a story. Inasgine aisonations, and think how they can be told to an audicace. Mental work is not enough. You must park alond when you are alone, in your house or in your garden. You must forge a mass of phrasers for yoursell, rehears them, keep some, discard others, and slavage goo on manufacturing new ones. Spak always goo on manufacturing new ones.

alond, think aloud—these are two golden rules!
The would-be orator must, Mr. Bourchier adds,
extend his vocabulary, and this can only be done
by reading the works of the masters of literature.

Many would be public speakers are afflicted with nervousness, but this can be cured:

Rabarse your speech alond, to yourself first of all ; then call in some good friend a best your than you will get a ceasioned to the scool of than you will get a ceasioned to the scool of that our your call get the platform of the platfor

him in good humour, and he will be easer to punctuate your points with burst of applause Calitation of the art of speaking distinctly is, in Mr Bourchier's opinion, the very first principle of all oratory. Without it 'winged words' are of no avail

Mr Burchier lays stress among other things on the value of the 'pause' and in this connexion quotes these words of Froude in illustrating Cardinal Newman's power as a preacher

Newman, who was at that time Vicar of St Mary's, Oxford, had been describing some of the meidents of Our Lord's Passion 'At this point' Fronde says 'he papsed For a few moments there was a breathless silence Then in a low. clear voice of which the faintest vibration was heard in the farthest corner of St Mary's came the words "Now, I bid you to recollect that He to whom these toppes were done was Almighty God" It was as if an electric stroke Lad gone through the church I suppose it was an epoch in the mental history of more than one of my Oxford contemporaries' Among actors of our time none, we are told, understood the value of the pause more than the late Henry Irving, who rever failed to give it extraordinary significance

The Laureateship

An interesting survey of the origin and history of the Lauresteehip appears in the Literary Supplement of the Times Coming to modern times, the writer says - The Premier of the day as we know had not heard of Tennyson a few years before Wordsworth's death, when he was induced to read 'Ulysses,' and as a result conferred a civil list pension upon the poet in preference to Sheridan Knowles. This now forgotten dramatist was still the favourite of some of the profession, such as Lytion, when in 1850, upon the refusal of Rogers, the chaplet was conferred upon Tennyson, for so many years the god of the Golden Bow, if not the /-us among gods and poets on his summit of Parnassus. The influence of Prince Albert as an admirer of 'In Memoriam' is said to have been paramount in the appointment. But the offer of the Court poet's place was made in the most delicate and flattering terms, the maintenance of the office being grounded, first, on ancient use and precedent and, secondly, upon the Queen's wish to retain a link between Sr James's and Parnes sus There is something pleasing about the conception of the Court as a microcosm of human

society with its jester, its satirist, its historian. its almoner, and the Court poet As the leater has his cap and bells, so the poet had his paraphernalis, his butt of sack which enabled him to entertain Feste and other choice spirits if it seemed well to him within the precipots of the Court-of course, within hours not prescribed by the presiding Major Domo For a poet to be a professional in those days patronage of some sort was indispensable and that of the Court took this somewhat indefinite form Nothing was probably fixed definitely and unalterably in regard to the appointment except that the payment was in a chronic state of arrears But the regular production of the scheduled odes postulated a certain amount of exhibitation which was daly provided for, while the public were adequately protected by the music and pageant in which the actual niterance of all this periodical postry must have invariably been smothered. Oncen Victoria who reverted in her ideals to the Stnarts, revived a personal and sentimental attachment to her Court poet In the case of other sovereigns of her dynasty we may perhaps take it for granted that the relationship was for the most part purely nominal It is well known that the late King was not very devoted student of poetry At a banquet upon a semi literary, semi State, occasion, when the names of the guesta had to be submitted for the King's personal inspection that of an extramely well known poet was objected to on account, it is said, of its unfamiliar and pleberan sound Explanation led to a frank admiss on of the King s unfamiliarity with some of the chief poetic reputations of the day. Yet the post in question was one of the daintiest and most accomplished writers of vers diocoasion that the country has produced . The wisdom or unwisdom of doing away with the time honoured conventions of the laureateship at the present juncture is a question on which we do not feel ourselves called upon to pronounce judgment most be admitted that the excessive purism of some of the critics of the ancient office and the sensitiveness of others on behalf of the sacred flame of poesy is not a little paradoxical at a time when the example of Tennyson in declining to regard the acceptance of an honorific title from the State as any degradation to the fair fame of Poetry and Polite Letters' is being so eagerly followed on every band Still more wasteful and paradoxical in our opinion would be the waste of skill and connotsseursbin in the matter of making a choice among a most opplent field The perplexity and atter bewilderment as to the capons which should rightly govern their choice might, in the case

of such Penniers as Palmerston and Salisbury, be very well associated a valid reaso of orasproding any association. But in the ease of our present parameters. But in the ease of our present parameters are present parameters and parameters are also as a parameter and a parameter and as a Balloi, has been a regalar devicted of the double-flute. He not only known the young poets of the day, but he artually quotes their immortal works. Never, surely since the institution of the office here the arguest pens favorable;

Bacon and the English Language.

Sir Edwie Durning-Lawrence, Bt, writes in his pamphlets on the Shakespeare Myth from which the following extract is taken by the Wednesday Review:—

We owe our mighty English tongue of to-day to Francis Bacon and to Francis Bacon alone. The time bas now come when this stupendous fact should be taught in every school, and that the whole of the Anglo-Saxon speaking peoples should know that the most glorious birthright which they possess, their matchless language, was the result of the life and labour of one man, ciz., Francis Bacon, who, when as little more than a boy, he was sent with our Ambassador, Sir Amyas Paulett, to Paris, found there that " La Pleiade " (the Seven) had just succeeded in creating the French language from what had before been as they declared " merely a barbarous jargon." Young Bacon at once saized the idea and resolved to create an English language capable of expressing the highest thoughts. All writers are agreed that at the commencement of the reign of Queen Elizabeth, English as a "literary " language did not exist. All writers are agreed that what is known as the Elizabethan Age was the most glorious period of Eogtish literature. All writers are agreed that our language of to-day is founded upon the English translation of the Bible and upon the Plays of Shakespears. ' Every word of each of these was undoubtedly written by, or under the direction of, Francis Bacon.

Max Muller, in his "Science of Language," Vol. 1, 1899, page 378 says: "A well educated person in England who has been at a public action of the University ... seldom cases the University ... seldom cases the University ... seldom cases the Language and the Language ... The Habrew Testament says all that it has to any with 5,642 words, Millords poetry is built on with 8,000, and Sukseapears, who probably displayed agreeder variety of supression than any

writer in any language produced all his plays with about 15,000 words."

Does any one suppose that any master of the Stratford Grammar School, where Latin was the only language nace, knew so many as 2,000 English words, or that the illiterate Lone bolder of Stratford, known as William Shakespears, knew half or a quarter so many?

But to return to the Bible-we neen the Bible of 1611, known as the Authorised Version, which J A. Weisse tells us contains about 15,000 different words (ie. the same number as used in the Shakespeare plays). It was translated by 48 men, whose names are known, and then handed to King James 1. It was printed about one and a half years later. In the Preface, which is evidently written by Bacon, we are told "we have not tred ourselves to an uniformitie of phrasing, or to an identitie of words." This question of variety of expression is discussed in the Preface at considerable length (compare with Max Muller's references to Shake. speare's extraordinary variety of expression) and then we read : " Wee might also be charged with some unequall dealing towards a great number of good English words if we should say, as it were, unto certain words, Stand up higher, have a place in the Bible alwaies, and to others of like qualitie, Get ye bence, be banished for ever." This means that an endeavour was made to insert all good English words into this new translation of the Bible, so that none might be deemed to be merely " secular."

la it possible that any intelligent person can really read the libid as a whole, not now a lither an ordinary book and fit straight through hite an ordinary book and fall to perceive the the majestic rhythm that runs through the who cannot be the language of many writers but must flow from the pen, or at least fem the officership, of one great muster mind?

A confirmation of this statement that the Audit before the vision of King James I, was selfued by one mater hand is contacted on "Times", newspage of March 2204, 1912, there Ardenon Westockt, writing about version of 1651, says, the review were far too many of them; and more than the selfued was too and the selfue of the s

Yes, the Bible and Shakespeare embody the language of the great master, but before it could be so embodied, the English tonges had to be created, and it was for this great purpose that Bacon made his piteons appeals for funds to Bodley, to Burleigh, and to Queen Flizabeth

Observe the great mass of applendid translations of the Classics (often second hand from the French, as Platarch's "Lares' by North) with which England was positively flooded at that period. Hitherto no writer seems to have called attention to the fact that certain of the tentannial time and the from the French instead of from the original Greek or Latin, not because it was easier to take them from the French instead of from the original Greek or Latin, not because in that way the new French words and phrases were enabled to be introduced to carried the English tonge. The sale of these translations could not possibly have paid any considerable portion of their cost.

Thus Bacon worked Thus his books under all sorts of pastdonyms appeared. No book of the Elizabethan Age of any value proceeded from any source except from his workshop of those 'good nens," over whom Ben Josoon was foreman

In a very rare and cursons little volume published snoopymoodly in 1615, under the title of "The Grate Assacs bolden in Paranasus by Apollo and bis Assessors." Ben Jouson is described as the "Keeper of the Trophonian Denne," and in Westimater Abboy his medallion boat appears clothed in a left handed coat to show up that he was a servant of Bandon.

O, rare Beu Jonson-what a turncoat grown'
Then pe'er wast such till clad in stone,
Then let not this disturb thy sprite.

Another age shall set thy buttons right Store 11, p. 513-15.

In this same book, we see on the leaf following the title pege the name of Apollo in large letters in an ornamental frame and below it in the place of honour we find Francis Bacon placed as "Lord YERDLIN Chancellor of Parnaus"

This means that Bacon was the greatest of poles ance the world began This proud postion is also claumed for him by Thomas Rudoll in a Latin pown published in 16:10, but believed to have been written immediately after Bacon death to 2023 Thomas Bacholl declare that Picsbus (** Apollo) was accessors to Bisconic death because he was a fraid that Bacon would some day come to be crowned king of postry or the second of the company of the compa

Instances m ght be multiplied, but I will only quote the words of John Davies, of Hereford,

another friend of Bacon's, who addresses him in his "Sconree of Folly," published about 1610, as follows --

As to her Bellamour the Muse is wont ,

For thou dost her embozom, and dost use, Her company for sport twist grave affaires.

Bacon was always recognised by his contemporaries as among the greatest of poets Although nothing of any poetical importance bearing Bacons name had been up to that time published, Stowe (in his Annales printed in 1615) places Bacon serenth in his lat of Elizabethan poets

THE UNIVERSITIES

MADRAS UNIVERSITY

Medical Council and Languages

The following circular letter has been addressed by the Registries to the Principals of all affiliated Colleges and the Headmasters of all recognized High Schools—

I have the honour, by the direction of the

Syndicate, to inform you that the Regulations of the General Medical Council of Great Britain. reparding the examinations recognized as a soffi cient test of preliminary education in the case of students entering upon medical courses of study. require that each such student shall have passed the qualifying examination in a classical language. The Council has under considerat on the revision of its Regulations and is in correspondence on the subject with the Syndicate The Council has expressed its intention of accepting the Intermediate Examination in Arts of this University as a qualifying examination in the case of students entering upon medical studies provided that such students have taken a classical or classical oriental language either in Part II or Part III (Optional Group in) and have satisfied the Framiners there In view of this proposal of the General Med cal Council Principals of Arts Colleges are advised to warn their students that those who wish to enter upon the medical career must take up the atudy of a classical or classical priental language for the Intermediate Examination It is improbable that the Council will grant any concessions on this point in the case of students commercing their Intermediate course of studies during and after the academic year 1913-14

As it will be apparently impracticable for a Secondary School Leaving Certificate Holder or a Matriculate to take up the study of a classical or classical oriental language either in Part 11 or Part III of the Intermediate course unless he has studied the language during his school course also, I am directed to invite your attention to this matter and to request you to be as good as to give the necessary warning to the pupils in your school who may intend eventually to enter upon medical courses of study.

CALCUTTA UNIVERSITY.

New Professorships.

A meeting of the Senate of the Calcutta University was held at the Senate House, College Square, on the 19th instant. Sir Ashutosh Mookherjee, the Vice-Chancellor, presided. There was a fair attendance of Fellows.

The Vies-Chancellor moved that a Professor-ship of Comparative Philogopy be established and that Dr. Otto Strauss, Ph. D., be appointed Professor of Comparative Philogopy for a term of three years, on a salary of Rs. 600 a month. He said that the Syndeate after duly considering the qualifications of Dr. Otto Strauss considered him eminently Hatel for the appointment and recomments of the contractive of the co

sminently fitted for the appointment and recommended to the Scuate to confirm his appointment. Dr. Thebaut seconded the motion which was put

and carried.

Sir Ashutosh Mookerjee next mored that Dr. W. H. Young, M.A., D.Sa., F.R.S. Lecturer on Higher Analysis at the University of Liverpool and sometime Fellow of Petersborough, Cambridge, he appointed Hardings Professor of Mathematics in plans of Professor Treesbert on the following conditions—(C) The class to be half of those not be considered to the conditions—(C) The class to be half of those not be considered to the conditions—(C) The class to be half of those not be considered to the conditions—(C) The class to be half of the conditions—(C) The class to be conditions—(C) The cond

The Vice-Chancellor stated briefly the high qualifications of Dr. Young both as a teacher and writer, He seld that Dr. Young was a real mathematical teacher and his books were well-known to every student of higher Mathematics, Dr. Young's papers were politised in three languages, English, German and Frence. In the opinion of Eir Autouch allowerse such a popular mathematician was eminently fitted for holding the appointments.

The motion was put and carried.

BOMBAY UNIVERSITY.

Alleged Injustice in Matriculation.

A meeting of the Senate of the University of Bombay was held in the Sir Cowasji Jehangir Hall. The Hon. Sir Pherozeshaw M. Mehta, senior Fellow present, presiding in the absence of the Vice-Chancellor, The Hon. Mr. Justica J. J. Heaton

Mr. E. D. Talati moved:—That the following sentence be added at the end of Regulation No. of the new Regulations in Arts and also at the end of the paragraph headed "Matriculation Framnation (New Regulations)" pages 104 and 239 respectively of the Calendar for 1912-13:—

"Should a candidate, however, not obtain the minimum mentioned above in one subject only, be should be declared to have passed the examination, it on a review of the candidate's marks a majority of not less than two-thirds of the examines present decide that the candidate should past, previded always that no candidate shall so past you unless he obtains at least 45 per cent, of the total marks in all subjects."

Principal Covernton opposed the proposition which he considered would produce a faral result Professor Welinkar said that Mr. Talati bad kid his finger on the weak spot in the case of Matricu-

lation examination for no doubt in respect to English, their candidates laboured under great disadvantages. He thought that the cases of those candidates who obtained 45 marks out of 150 in English should alone be considered.

Dr. Powell strongly opposed the motion. He said this rule had been grossly abused by examiners with regard to other examinations and it would be grossly abused in this case.

Mr. Phabha said Mr. Talati's proposal would

Mr. Bhabha said Mr. Talati's proposal would have been worth discussing if he had added the words suggested by Principal Covernton.

Dr. Mann thought that Mr. Talaile proposed would in on way lower the atandard of English for that was in the hands of the examiner and he boped that the standard would be raised. He advised Mr. Talait to withdraw the present motion in view of the imperfection in drafting and bring in another in the eart future.

Mr. Talati in reply said be had succeeded in his object to a great extent by agitating the question. He, however, followed the advice of Dr. Mann and asked leave to withdraw his proposition.

The permission was granted.

ALLAHABAD UNIVERSITY.

M. A. Scholarships.

The following Government M. A. Scholarships of Re. 20 per measure have been awarded to the following candidates on the results of the B. A. examination. The scholarships are tenable for 22 months from July I:—

Miss Mand Annie Keegh, Mussooree Woodstock College; Hafiz Mahomed Yasin, Aligarh M.A.O. College, Miss Eileen O Neill, Mussooree Wood stock College Pearey Lal Chak, Lucknow Canning

College D Sc. Scholarships

Of the value of Rs 20 per measure tenable for 3 years on the result of the B. Sc examina

Anand Swarap, Agra College, Syed Abul Hasan, Allanabad Muir Central College

B. Sc. Scholarships:

Of Rs. 12 per meus-om tonable for 2 years — Jaganusth Tripathi, Benares C. H. Colleges. Ram Gopal Vaish, Allahabad M. C. College, bia Ram, Agra College, Joytish Chandra Chatterit, Allahabad M. C. College

B. A. Scholarships

Of Rs 12 tenable for 2 years

Sheo Charan Satyawad and Syed Was Hasato, Allababad R C College, Mamohan Lallabator I Barelly College, Abd Hessin Khan, Al garb M A O College Balbbadra Sahay, Allababad H O College, Syed Hasan Barney, Aligard M AO College, Mabomed Bashur ol Haq Haqq, Meerat College, Abdoll Ghauce, Aligardh M A O College, Kaban Marari Lad Bakseni, Benares O H College, Ram Chandra Singb, Meerat College.

Intermediate Scholarships

Of Rs 8 tenable for 2 years -

Thobarn School

SPICIAL FOR GISLS

Misses Grace Joseph, Daisy Evina Philips and
Helen Rachel Smellie of Agra Queen Victoria
School and Miss Isabella Merril, Lucknow Isabella

MATRICULATION

Lalla Ran Tewar, Allahabad, Krahan Dayal, Incknow Natacbadra Shone, Lecknow Bhaskar Nath Kaol Sharga, Agra Hari Lall Mitra, Allahadad, Schat Babadar Lal, Allahad, Bhupendranath Saba, Debra Don Tombbat Umanth Rao, Beavres, Mahomed Nasin, Bena res, B P Datt, Locknow, Miss Shuniti Chat terjes, Lucknow,

SLC

Kateshwar Prasad, Fyrabad, Raghubir Prasad Singhal, Aligarih, Raghusandan Saran Moredad, Xado Nadoa Prasad Miara, Sitapor, Syd Rasi Abmad Sitapor, Ramanaj Das, Ghazipor, Ali Akthra, Horedabad, Asebasa Binayaka Tam bar, Jamus, Abdal Latti Khan, Sikandrabad, Kunwar Bahador Saksena, Elawah, Ram Sada, Kanwar Bahador Saksena, Elawah, Ram Sada, Pitambar Pander, Ann Tal

TECHNICAL EDUCATION

Typawriten Topics

[The Edilor invites contributions on Topics regarding Typewriters]

ARMSTRONG TYPEWRITER



Scarcely a year passes without some form of typewriting machine being placed on the market and everyone of such machines is highly spoken of by the inventors. Under the circumstances prospective purchasers are naturally somewhat at a loss to differentiate one from the other Gener ally two things are aimed at in making a choice of typewriters viz , efficiency and moderated cost When these two things are no sconer stated than any one acquainted with the relative merits of writing machines would immediately think of the Armstrong This wonderful machine has set a new standard in high efficiency while others are making numerous additions to their machines, thereby making them more and more complicated and bulky without considering whether the same end cannot be attained with less complexity in construction The inventor of the Armstrong bit upon a plan of constructing a typewriter on entirely new lines which would be mechanically simple and yet embody all the best points in modern typewriter construction. The peculiarity in the Armstrong typewriter lies in the single piece type bars baying the key on one end and the type on the other. This novel feature in its construction has eliminated many parts which are inseparable in the construction of other machines This simplicity in construction was no doubt aimed at by all inventors but the inventor of the Armstrong who had more than 25 years' experience behind him and with all the best known improvements of high speed typewriters to his credit was alone able to put it into practice This delightful simplicity in construction not only rendered the machine less weighty and less costly but also made it highly durable and lesst hable to disorder. In addition to the above peculiarity the machine is provided with all the necessary equipments such as indicator, or pointer, frictionless ball bearing movements,

double colour ribbon device, perfect action of the escapement wheel automatic movement of the ribbon, rigid carriage with instantaneous response, automatic line spacer, type guide, etc., etc., all these points combine to make it a perfectly simple machine and a simply perfect machine By virtue of its having a single piece type-bar its manifolding power has become greater and the stencil cutting easy.

THE MADRAS HEALTH DEPARTMENT LABORATORY.

Mesars Murch and Semour, Opticians, stc., Mount Road, Madras, very recently equipped the Madras Health Department with a complete Outfit for Bacteriological and Hematological research work, and they have received a communication, with regard to the efficiency of the austruments and apparatus supplied saving that they have been well tested and found to be of the highest order. The microscope supplied, of English manufacture, known as a "Public Health" Model is of the very latest and most complete construction, affording magnification up to 1,260 diameters, and is similar to those in use at the Tropical School of Medicine, The Royal Microscopical Society, and scientific institutions in various narts of the world. We believe that this as the first instrument of its kind to be introduced into this Presidency for public work. The completion of this outfit was under the personal charge of Mr. W.H. Murch, B. Sc., Optician and Scientific Adviser, who will be pleased to furnish details of the microscope, and other apparatus to any one interested. We learn that a similar outfit is being supplied to a Government justitution in the North of India.

STATE TECHNICAL SCHOLARSHIPS. The Government of India have this year sonc-

- tioned the award of ten State technical scholarships to the following candidates for a course of training in Europe in the subject noted against each :-
- 1. Mr. P. K. Rajamanikam-Leather goods indistry. 2. Mr. Chunilal Purshotamdas Sheb-Pottery.
- 3. Mr. Ramash Chandra Roy, at present at Manchester Mechanical and Electrical Engineering, subject to the production of a medical certificate as to his physical fitness to undergo the course of study proposed.
- 4. Mr. Abdul Rabim Khau, Sugar Engineering,
 - 5. Mr. Kriebna Lal, Sugar Ergineering,
- 6. Mr. Lahouri Mai Khoela, Flour milling.

- 7. Mr. Abdul Hakim, Chemistry as applied to minerals and metals. 8. Vidyananda Dowers, Mechnical and Electric-
- al Engineering. 9. C. C. J. Brancion, Architecture.
- 10. Mr. Row Lal, Mechanical and Electrical Engineering.

KALABHAYAN TROUNICAL INSTITUTE.

The work of the Kalabhavan, Barods, is conducted in six departments known as the schools of mechanical engineering, civil engineering, commerce, art, chemical, technology and weaving respectively.

Students are prepared for the London City and Guilds examinations, which are held in Rombay, The courses of instruction in dyeing and wearing are of three years each. They are systematically graduated, and those who pass are given diplomas from the Institute. It is possible for one who has graduated in either weaving or dyeing to qualify for the other diploms, by one year's additional study.

The Secretary of State has approved the propossls that have been made in regard to the Sydenbam College of Commerce, Bombay, 'as being a practical scheme well calculated to meet the demand which may be expected to make itself felt in India for the services of trained actuaries and auditors.' The teaching staff which it is proposed to engage for the College at its commencement will be a Principal on £900 per annum or Rs. 1,125 per mensem, a Professor on £700 per annum or Rs. 875 per mensem, and two lecturers on Rs. 300-25-500 per mensem each The Principal and the Professor will be appointed in England and the lecturers will be qualified Indiana. The Secretary of State assisted by Lord Sydenham, will soon select the Principal The College has been rendered possible by the easisfactory promises of financial support from wealthy private officene '; but, it 'will be entirely under Government control ! In order, however, that the courses of study may be kept in full barmony with the practical requirements of commerce and industry, an Advisory Board will be appointed. It will toosist of 18 members representing the Government, the private dopore and the commercial bodies which bare promised to contribute fowards the cost of the College. . The Director of Pablic Instruction (who generally does not happen to knew much or take real interest in commercial education) will be the Chairman of the Board, and the members will include the Principal and the Professor, representatives nom mated by the donors (Sir Jugmohaudas Vurjee vandas, the trustees of the Wadia Charities, Sir Chingbhai Bladhavlal, the Bombay Chamber of Commerce, the Bombay Millowners' Association, the Indian Merchants' Chamber and Bureau, the Native Piece goods Merchants' Association, the Ahmedabad Millowners' Association), and Sir James Begbie Secretary and Treasurer of the Bank of Bombay The Chamber of Commerce has not promised to give more than Sir Jagmobandas or Sir Chinabhai, but it will have two representa tives, while other bodies and the individual donors will have one representative each The Sydenham College of Commerce will be affiliated to the University of Bombay, which has institut ed a new degree of Bachelor of Commerce and framed a scheme of studies in connection therewith

TECHNICAL INSTRUCTION

A beginning has now been made in the allot ment of the Imperial Grant of Rs 21 000 allotted for the current year towards the payment of special grants for Industrial Technical and Special Schools, and a Government order issued to-day states that a total sum of Rs 10,250 has been apportioned For carpenter tools Rs 181 are granted to each of the following schools -St. Joseph's Industrial School, Coimbatore, W. M. Industrial School, Karur, Chengalvaroya Naick er's Technical Institute, Madras, Arcot A. M Industrial School, Arm, Art Industrial School for boys, Nazareth, St Francis Navier's Indus trial School, Tanjore, and H. G. L. M. Industrial School, Nayadapet, Rs 271, to A A. M Industrial School, Velachers, and the Autuman (laha athul Hasapath, Vellore Rs. 379 to St Joseph's Orphan Industrial Schools, Tindivanam, and Re. 361 to the Apjumani Mafid : Ahlı lelam, Madras. Rs 2 250 are granted to Chengalvaroya Naicker's Tochnical Institute, Madrae for a milling mechine and cutters , Rs 3,000 to the Agricultural School, Kavali, for an engine and pump for irrigation purposes ; I.s. 400 to the A. B. M. becondary School, havals, for tools for aluminium work and wearing , and a sam of Re 2,051 is allotted in petty grants to various schools for minor appliances such as pillow lace, etc. proposed to pay the amounts specified above as free grants to the schools to improve equipment and proposals for the utilization of the balance of Rs. 10,750 bave been called for.

Reviews and Protices.

A GEVERAL HISTORY OF THE WORLD, BY OSCAR BROWNING, M A. (LONGMANS, GREEN & CO) 55 net.

Few will question the essential soundness of the principle enunciated by Mr Oscar Browning in his Preface to this book, that a study of History should begin with a knowledge of the outlines of the General History of the World. There cannot be a better means of introducing the student to the subject, for it is only thus that it is possible to guarantee a proper sense of historical perspective. There has till now been the want of a suitable College manual for such a purpose and it has been supplied by Mr Oscar Browning, whose name carries with it consider able authority and reputation. The confinement of the History of the World to a single volume of eight hundred pages is no ordinary task, and nothing but Mr. Browning's wide experience td the writing of such manuals could have helped him to accomplish it. Quite an interesting aspect of the book is its recognition of all aspects of national life. It is no sombre record of political and constitutional facts, but a lively picture of the world's civiliention and progress, taken country by country We wender if it did not strike Mr Browning that there should be a general introductory chapter, reviewing the world a history, and dwelling on the origin and wandering of the primitive peoples of the earth. The book should certainly have had a better beginning than "The land of Egypt is the creation of the Nile, made and unmade every year by the inondation of the river" We do not dispute the statement, but it is not a proper introduction for a general history of the world. We hope the defect will be remedied when the next edition is called for

THE LIST CENTER IN LEROIS, BY C. E. M.
Plankesworth, M.A. (Edwing Arrold).

Dr.

The author mentions a friend of his who is and to have dealard that the numerous century would protude in the future the most interesting and instructive period for historical study. There have been pages of Pompean Illiators, more fall or resairce and extentence, but there is none of them which surpasses the number of the most of the most process. There is also the additional circumstance that its protingty to media the appeal interest, and many of the

- Imperialism and Mr. Gladstone, 1876—1887, by R. H. Gretton. London: G, Bell & Sons. 1s. net.
- A Junior Course of Arithmetic, by H. Sydney Jones, M.A. London: Macmillan. 1s. 6d.

Outlines of Victorian Literature, by Hugh Walker and Mrs. Hugh Walker. Cambridge University Press. 3s. net.

Selections from English Poetry with Introduction, Notes, etc., by three English Professors. Trichinopoly: The Publishing Agency 5 As.

Text-Book of Zoology, by H. G. Wells, B.Sc., F.Z.S., F.C.P. and A. M. Davies, D.Sc. London: W. B Clive. 6: 64.

The Wanderings of Animals, by Hans Gadow. F.R.S. Cambridge University Press. 1s. net. The Children's Classics—Junior No. 23, 22d, Intermediate No. 44, 33d. Senior No. 54, 44. London: Macmillan

3ndian Educational Rotes-MADRAS.

Shorthand and S S. L. C. Scheme -- Government have issued the following order -Tre Director of Public Instruction submits for consideration engoes. tions for the further recognition of the public examination in shortband and typewriting under the scheme of Secondary School-Leaving Certificates, The Government have given the question their careful consideration and will proceed to pass orders on the various points raised. The Director proposes to modify the Public Service Notification so as to put shorthand and typewriting on an equal footing with other optional subjects in the Secondary School-Leaving Certificate scheme and further to treat shorthand and typewriting as separate subjects under that scheme. The Government while sgreeing that shorthand and typewriting may be placed on the same footing as other optional C group subjects, are not prepared to give them separate recognition Shorthand and typewriting combined will accordingly continue to be regarded as a single Commun subject in the Secondary School-Leaving Certificate scheme, but will be counted as one of the two optional subjects sufficient knowledge in which is a necessary qualification in the case of applicants for admission to the public service under clause (2) of article 1 of the Public Service Notification. The Government are further pleased to accept the Director's auggestion that approved Secondary School-leaving Certificates containing satisfactory entries under shorthand and typewriting should also be recognized as an alternative qualification for posts in the public service for which at present a pass in the elementary grade at the Government technical

examinations in typewriting is alone prescribed. The bigher technical qualifications will, however, still be essential in the case of the higher appointments or scales of pay for which they are at present prescribed The Government also agree with the Director that in order to ensure a reasonable standard of technical proficiency in applicants for such posts who hold Secondary, School Lesying Certificates the standard of the examination is shorthand and typewriting under that scheme should be the same as that of the Government technical examination in those subjects in the elementary grade. The Director of Public Instruction will be requested to submit, for the approval of Government, draft notifications embodying the alterations required in (1) the Secondary School-Leaving Certificate Notification, (2) the Public Service Notification, and (3) the Government technical examination syllabuses to give effect to the above orders.

New Training Schools :- In December of last year orders were passed by Government giving effect to the reorganization of elementary training schools in pursuance of the sanction accorded by the Secretary of State in his despatch No 140.
Public, dated 16th August 1912. The case of secondary training institutions was temporarily held over in consequence of His Lordship's intimation that his general approval of the proposals submitted in that regard must be read as subject to the qualification that it should in no way prejudice 'his decision on the proposed establishment of model high schools. The Government have now given the necessary further consideration to this matter and in yow of the urgent need to create additional facilities for the training of secondary grade teachers, they have resolved at once to revise present arrangements so far as the necessary reform can be carried out in dependently of the creation of model high schools by the temporary expedient of utilizing existing secondary or elementary schools as practising sections. The six stations at which it was originally noun. The six stations at which it was originally proposed to open secondary training classes were saistanuadry, Mangalore, Chittoor, Coimbators, Paighat and Tirevalur. At Rajshmandry and Rangalore there are already secondary achools capable of furnishing the requisite practing material afths bickets. material of the higher grade, and the selection of meterial of the higher grade, and the selection of Sendapet in lieu of Chittoor will provide similar facilities for a third secondary training school. At Colimbators an elementary school is available and the substitution of Calicut and Tanjore for Palpha and Tiengalage. and Tienvalor will conveniently fornish the same material in the districts of Malabar and Tanjore. The Government approve the proposals now submit-ted by the Director of Public Instruction for the purpose of giving effect to this modification of his original scheme. Government accordingly sention the staff proposed for the secondary training classes and the practicing behools which in persons of this derience will this decision will be temporarily located at Rajab-mundry, Mangalore, Saidapet, Coimbatore, Calicut and Tanjore. The training sections will be permanuly succioned and the beadmasterniles will be constituted tools a new grade consisting of six appointments on Bs. 200 and forming part of the caden of Sub Assistant Inspectors, while a farther addition of four appointments on Bs. 100 will be made to the stance cader in order to provide for Assistant Masters. The stoff of the practising excitone of the schools as Combistore, Calcula and continuous control of the practising of one year or panding orders on the schools of the establishment of model high schools The Director of Public Instruction has been requested to about a responsyntantic statement for the extra charge in 1913 14 on account of the re-organisation to be introduced under this order of Government.

Building Grants —The Government have search toned the following building greats—82.450 towards the cost of the construction of a building for National High School, Nagapatan , and the construction of a building for the Grant School at Conjewers in R 2,500 towards the cost of the construction of a building for the G L M Secondary School, Tanguera, and an uncrease from Estimate of the Conference of the Conf

Teachers College, Saidapet -The report on the working of the Teachers' College, Saidapet, for the year 1912-13 quite appropriately begins with an expression of regret for the sudden and untimely death whilst on leave in England, of Mr. A A. Hall, the Principal, to whose efforts in the words of Sir Alfred Bourne, the successful development of Sir Alifen Bourne, the successful development of the College during the long period of over a quarter of a century, dearing which he was in Charge of it, was due Mr. H. S. Duncan was confirmed in Mr Halle place Government strengthened the staff of the College. Department by converting the post of Assistant Secondary Training Section, on Rs. 150 5 200 grade into a lecturesh p on Rs. 200 18. 100 5200 graue into a returned pour see 200 per mensem outside the eader of the Promincial Educational Service, and an Assistant in the Secondary Training Section was appointed to the new post of Lectures in Geography with effect from 1st January of this year. The staff of the model achool was increased by the appointment of eight additional temporary assistants and the appointment of eight temporary assistants sanctioned till 31st March of this year were allowed by Government to continue till the Blet March next year. The Government also sanctioned the employment for a period of sixteen months from 1st January last of a Hindus tant Munshi on Rs. 30 per measem for the model school attached to the Teachers' College, in order that arrangements might be made for the teaching of Hindustani and for the formation of Mohammedan sections in the lower classes with a view to the use of Hindustani as the medium of instruction During the year, Government sanctioned the extension

of the hostel buildings, and thirty rooms were built at a cost of Rs 8 850. The detailed plans and cetmates for the alteration and fitting up of the Physi cal Science Laboratory are being prepared by the P W D The College and model school were equipned with furniture to the extent of Rs 3.340 average cost of boarding and lodging in the three College hostels was Rs 11 8 0 per mensem All the graduates and secondary grade students who were relieved in April, 1912 are reported to have secured employment as teachers, and of the present set of students most have appointments to ion after leaving the College. The cost of the institution during the year increased owing to the appointment of addisional temporary assistants for the model achool, the equipment of the College and echool laboratories, and the extension of the hostel While the receipts of the College amounted to Rs 8401 11 3, the charges were Rs 94514 13 L so that the net cost to Government of maintaining the College way Rs 86,113 1 10, and the cost of educating each student was Rs 730 as against Rs 415 in the previons year The Director of Public Instruction observes that the administration of the College was creditable to the Principal, the Vice Principal, and the staff.

School Hygiene—One of the most important reforms to which the recent educational resolution of the Government of India drew attention was the imageration in this country of a system of medical respection of schools, on the liera of that no reque in England Scotland and other European countries. The Imperial Government have not been conduct with a more corporation of their sense of the importance of the subject, but have directed of the importance of the subject, but have directed of the hygiene condutions such which thousands of the runing generation recurs their education in schools and colleges.

In accordance with the desire of the Imperial Government, the Government of Madras have taken steps to mangurate this inquiry, though for the present they have limited its scope to the institutions in the city of Madras A small committee, consisting of Mr J H Stone, CIE Colonel G. G Giffard, C s I, the Hou'ble Mr V. S Srinivasa Sastriar, the Hon Dr T M Nair, Rao Babadur A C Pranathartibara Iyer 180, and Mr Yakub Hesan, has been appointed by Government to draw up the heads of inquiry and suggest names for a larger committee which is to conduct the inspection This preliminary committee met for the first time at the Senate House, and has tentatively drawn up the terms of reference. It is expected that when the larger committee is appointed by Government, no time will be lost in starting the jaquiry, and the labours of this body ought to produce far reaching results

St Aloysius' College - An extremely interesting lecture on Carlyle was delivered to a large andience consisting of the members of the St Aloysius'

College Literary and Debating Society by Mr. S V. Rangement Ivelegar, Ba. With a remarkable Rangiswamy Iyengar, B A. insight into the character and a thorough grasn of the various writings of the great Scotchman, the learned lecturer combined much recreative information of his subject with as much valuable instruction in the course of his lecture, varied by the capping of many su anecdote in the long life of the author of Frederick the Great His whole-hearted sincersty, his utter truthfulness, and downright enunciation of "cent and humbing" and above all his striking originality were touched upon each in ile turn by the lecturer who would however be far from placing Carlyle's style of writing as a model for his youthful hearers to follow. Mr. Iyongar draw particular attention of the audience to the great and noble traits of Carlyle's character, laying special stress on his supremely filial treatment of bus father. He also took occasion to refer to his kindliness, gentleness, escaestness and devotion which were, at times, apparently marred by the eccentricities and augularities of the man who had a whole nation of admirers and devoters In short. the lecturer succeeded admirably in making the grand figure of Carlyle, the gensus loss of Great Britain during nearly ball a century and more, live once more in his works to noint a moral and adorn a tale conspicuous in the pages of the literary history of England

BOMBAY.

Education in Barola—Th appears from the annual Administration Report of Broad for 1911-12, which has jett been published, that the number 112, which has jett been published, that the number 172, which has jett been published, that the number 172, which has been provided by the property of the boys than downsen that such calculations of the public at some for the rated works which had to be taxisted, owing to the boys than of the guid left their homes for the rated works which had to be taxisted, owing to the law of the public state of the public state of the rated works which had to be taxisted, owing to the rated works which had to be taxisted, owing to the rated when the public state of the publ

Shook Final Examination—The following retrees appear in the proof jost send by the fivetored space in the proof jost send by the fivetored Fubic instruction in Bonksy on the School Frund Examination in 1912. He quotes a remark by the extunitors in history at Poore that all, attempted to write in general terms without reference to the facts which were around as if they were stambing these are not real technology to great a wards strong the right and on the head. He says the difficulty is that out of the hoge may of

historical and geographical facts many teachers have not the least idea of what is essential and what is not, consequently they try to make their pupils learn all the facts with the result that is sometimes worse than as if they had not learnt anything at all. The remedies are more teaching in the vernacular and legislation on the subject of what is and what is not essential to remember. The difficulty is to find a legislative authority whose rulings will be accepted It is all very well for the French Academy to tell people how they are to spell, but if the Director of Public Instruction told the people what they were to remember and what to forget there would be no end of criticism. If the exeminer is entitled to ask anything in the world the teacher will unturally endeavour to teach his pupils everything in the wide world in order to be able to meet bim. The Local Government in the res dution on the report agrees that steps should be taken through the medium of text-books and special pamphlets.

Moral Instruction -The Bombsy Government in a long resolution lay down a definite programms for moral instruction in schools. They first recapitalate all that has been done in the past three years since the Conference of all the Committees met in Bombay, and expressed the strong opinion that something ought to be done to give systematic teaching, directed to the formation of character and the coltivation of the knowledge of moral truths. The chief incident of the three years was the engagement of Mr. P. A. Gonld, of the Moral Education League, to give lectures on the subject. Mr. Gould has presented a report containing a number of recommendations Government say that the standard he recommends is an ideal one to be worked up to gradually, and that as usually instruction in this country is in the nature of an experiment it is necessary to proceed cautionsly In extending operations, a beginning should be made only in those schools, primary and amount be made only in those schools, primary and sreendary, where conditions are clearly farousals by access and where eachers have particular qualifications for the task. The Director of Poble Jactroction will make arrangements accordingly. Government think is desirable to wait for the further development of the movement before adopting the eaggestion to appoint a non efficial Consultative Committee, but meanwhile the Director is instructed to consult certain representative public meo, whose names are mentioned. Government say, there should always be kept in view in the course of instruction the necessity of willing and intelligent co-operation on the part of the citizens with the State

Manual Training.—The following Government Resolution No. 1610, dated the 5th Jane 1913. regarding manual training at training manitations and high schools, is published for general information:

On the 18th May 1912. Government, after review, ing the provision made in the codes of the various

training colleges for imparting margal training "emarked that prima facis there was a case for the extension of facilities for manual training at the other colleges on the lines of the course laid down at the Dharwar College and expressed the opinion that, if a complete course leading up to the issue of teaching certificates could be arranged at those colleges there would ensue a corresponding maluple cation of manual training classes in connection with the larger primary schools and a general impetus would be given to the spread of this form of instruction It was added that Government considered it desirable that means should be devised for correlating (though not necessarily rendering uniform) the methods and objects pursued in imparting manual instruction in the several schools The Director of Public Instruction was accordingly requested to submit, after consulting the Principal of the Victoria Jubilee Technical Institute a report on the possibil stwof taking action on the above lines Subsequent ly, at the instance of the Hon Rao Bahadur Semiyes Konber Rodds, the Director of Public Instruction was asked to report whether he const dered is desirable and practicable to establish manual training classes at B paper and other Government high schools and if so, to submit detailed proposals together with an estimate of the cost. In September 1912, the Government of India, while forwarding the report of the Committee appointed by them to inquire into the question of bringing technical institutions into closer contact with employers of labour, emphasized the need of making education in isbour, empassized the use of maxing concention in primary and secondary schools more practical, and the Director of Public Instruction was saked to report on this point. The several reports called for have now been received and the Governor-in Coun cil is pleased to mane the following orders on them

- 2 With regard to manual training in training colleges the conclusions arrived at by the Director
- (a) that it is both desirable and practicable to institute a manual training class at each of the training colleges for men,
- (b) that the subject abould be compulsory to the first year and optional during the rest of the course when it abould form an alternative with such subjects as agriculture and drawing;
- (c) that the course should be based upon the system known as Sloyd the ultimate cbject being to a tach woodwork classes to primary achools, not for industrial purposes but for the betterment of general education.
- As regards se-ordery achools musual training consisting of drawing and practical carpotatry, is prescribed as an optional subject for the School for the Control of the Con

present exists is the Belgaum High School and the Director of Public Instruction considers that a beginning might be made by the institution of manual training classes at Satara Dhulia Sholapur, Bijapur, Abmedabid and at a centre in Stud These conclusions of the Director are accepted subsect to the remarks made below

- 3 The Governor to C uncil as of opinion that the minusil training to be given in the training colleges and high schools should not be of the kind which is now being given at the Dharwar Training College and the Belgaum High School batthat when passent of handwork known as 'Sing'd' who passences educational advantages not associated with possessers educational advantages not associated with possessers educational advantages not associated with possessers educational advantages not successful the support of the fifth to be occasive to establish a special class at which instruction will be given to—
- (a) persons who will become teachers of 'Sloyd' in the high schools at which classes in that subject will in due course be established.
- (b) persons who will teach 'Sloyd at the verna cular training colleges where heoceforth every student will have to undergo a Sloyd' course in his first year it being thereafter optional for him to continue with this subject or to take up drawing or nature study
- 4 The Director of Public Instruction abould accordingly be required to enquire and report or what terms a competent teacher of Sloyd can be used to be a competent to a system has been considered to the control of the
- 5 As agriculture has been omitted from it o carriculum of primary achorls ouder it ourders contained up paragraph 70 (Government Lived) in the paragraph of Government Lived) in the contained up paragraph 70 (Government Lived) in the paragraph of the paragraph o
- 6. For the present manual training on the lines above and cased will be introduced in such Governmers rehoods only as powers the requisite facilities and is must, therefore continue to be an opinional abbiect, but in any Government secondary actood where provision for imparting manual training.

exists all pupils up to and including the fifth standard will be required to take it up.

CALCUITA

Ananda Mohan College -The Givernment of India's letter giving the reasons for rejecting the application for the affiliation of the Ananda Mohan College of Mymensing to the B. A. standard has been published. The main reasons for rejection

The application reached the Government of India very late :

The present staff is insufficient and accommodation not ample; and the acquired amount of Rs. 50,000

has not yet been realised

The Government intimate that if the necessary conditions are fulfilled they may reconsider the matter

Recognition of High Schools: India Government's Proposals -The Government of Bengal has addressed a letter to the Registrar, Calculta University, regarding the recognition of High Schools for the purpose of presenting candidates for the Matriculation Examination of Universities. In Madras, the Director of Public Instruction and Darbars of Feudatory States are recognised authorities and in other provinces recognition is the act of Syndiouer provinces recognition is the act of Syndi-cates of Universities. The Iudian Universities Commission of 1902 recommended that the University abould recognise only schools within its local limits recognised by the Educational Depar-ment in accordance with department rules, for the time being in force The situation was again referred to in the Government of India Resolution of 21st February last. The Government of India have addressed this Government on the subject drawing attention to certain considerations which appear to indicate the desirability of such a change and en quiring whether the changes suggested are desirable, whether they could best be effected by a midification of Section 25 of the Act so as to provide that no school should be recognised by a University unless first recognised by the local Government and also whether the local Government should be absolute authority in recognition or whether a University abould be permitted to select among schools recognised by Educational Depart-Considerations to which the C very ment of India refer, are first, there is a demand for seaching University such sa that which his t on proposed at Al garb on a basis other than terri orial. Sho ild these matitutions materialise, or should it be found desirable to break up any of the ex sting Universities in smaller units, lines of closvage will become complicated Secondly, the growing popularity of complicated Secondry, the growing popularity of School Frank Examination is giving to some local Covernments a larger interest in High Schools Finally, there is reason to hope that all Universities will more and more against the function of teaching bodies. Panctions which Universities now exercise

in respect to smilisted Colleges are already, it is understood, straining their whole energies and it becomes increasingly important that they should not be restrained in their higher work by detailed work in connection with schools.

The Governor-in-Council is unwilling to express any opinion before ascertaining the views of the Calcutta University.

ALLAHABAD.

Registered Graduates - We understand that a notice has been served on a number of registered graduates of the Allahabad University that, for non-payment of their annual renewal fee by the prescribed date (June 20), their names have been removed from the register of graduates maintained in the office of the Registrar under Regulation 5 of Chapter XXVII of the University Regulations We are told that if those registered graduates pay their ronewal fee now, they stand disenfranchised till next year. This is rather bard. In view of the fact that this is the first year after the registration was eff cted, some grace of time may yet be allowed to them. If intimation had been given a few days before the fateful June 30, and if still some registered graduates had failed to pay the renewal fee, there would have been no occasion for complaint Even hie insurance companies, though under no obligation to remind policy-holders of the due date for the payment of premis, not only do so but give them a month's grace, or more or less as the case may be, for the payment Regard being had to the fact that the total number of graduates names on the register is not large, the number struck out now appears to have been considerable. We do not question the technical right of the Registrar to have acted as he did. But the world cannot be governed always by technicalities. In view of all the circumstances we make a suggestion and an appeal that the names of the graduates which have been struck out should again be brought on the register on their payment of the prescribed fee within a specified time. the regulation sait stands does not permit such a concession, there will not surely be an inapperable difficulty in the way of its modification. The graduates should really be encouraged to exercise the privilege given to them -The Leader.

MYSORE.

The Maharani's College -At the last Birthday Session of the Mysore Economic Conference, the following argumen's were put forward on behalf of the Maharani's College for the betterment of existing facilities being provided, as far as possible, for the admission into the Boarding House of all castes (2) That one or two Boarding Behools for Girls of the Middle School Standard be established in other places, that the day echolars be admitted to these schools, but the school building, the Boarding House and the Superintendent a quarters be all located in the same compound . and that (3) special encouragement in the shape of scholarships of Rs 2 and Rs. 3 m the fourth and fifth classes of girls schools be given to those students who undertake to become teachers The resolutions were put to the Conference and carried by a vote of 27 with none against. There is absolutely no question of doubt about the desirability of the foregoing introduc tions The school hostel, it is felt, has long been necessary for the convenience of out station students, and the provision of acholarships for prospective teachers, though small, will muits own particular way be of meetimable value in promoting encourage ment among the pupils Arrangements are slready on foot for the erection of the hostel which is to be established on the plot of ground situated be tween the College and Marimallappa's School

Libraries and Reading Rooms -Among the prescribed agenda of discussions at the last Session of the Mycore Economic Conference was the argument in favour of the establishment of Public Libraries and Free Reading Rooms in the State with any of the existing state Libraries as nucleus. The argument received the unqualified support of the Conference, and incidentally of Government, who, have considered the Conference initiative, and granted an addit onal budget provision of Re 50 000 during the first year, and Rs 25 000 in subseodicals to public Labraries and Reading Rooms , and have further decided that grants not exceeding Rs 100 and not exceeding subscriptions otherwise raised be made to village Libraries and Reading Rooms Similarly, such financial aid as may be extended by Government to the scheme will in the case of those proposed institutions which conform to the rules framed, be given arre spective of village, locality, or fown

Foreign Rotes. GREAT BRITAIN

Scientific Editation — A scientific system of mytomal cinction, has been derived by the British Science Guild and published by Mulara. The first requisited of and a system, seconding to the Guild, reproved by the second second second second growth during influency and throughout school life. The second is "the shoulds increasing of minnal work and related practical exercises throughout work and related practical exercises throughout is 'efficient, public elementary schools within the reach of all children and sitendance at school is 'efficient, public elementary schools within the reach of all children and sitendance at school is 'steedance at continuation schools for all young is 'steedance at continuation schools for all young fills is 'statish's exceedary schools available for all who can profit by them. The auxh is the institution of school certification is presspores for currenties. The seventh is to give a secondary contributed. The seventh is to give a secondary to explicit a secondary of the secondary of the work with outerstay rock. The much is necessarily work with outerstay rock. The much is necessarily grants to universitive and other places of higher education for purposes of essuring the reduction of fees for all courses. The tenth is the improvement of the interest of the cost of education borne tenth of the direct of the cost of education borne much of the since of the cost of education borne or that educational progress may be made a national responsibility.

Post Laureateship -The appointment of Dr Robert Bridges as poet lagreate is a surprise in its way as was that of the late Mr Alfred Austin by Lord Salisbury While Mr William Watson is alive. nobody would have thought that Mr Asquith would elercise his patronage in favour of Dr Robert Bridges It could not be expected that a Liberal Government would choose Mr Rudgard Kipling. the bard of uppossm, and we are glad for the dignite of the office that he has not been selected But if Mr Swinburns was ignored in 1896 Mr. Watson need not have been passed over now Then there is Mr Thomas Herdy but he too has had to take a back seat by the side of the favoured doctor The new poet laureste was born in October 1884 and is nearly 69 years of age He received his education at Eton and Corpus Christi College, Oxford, of which here an honorary fellow. He travelled for some time after leaving. Oxford and then took to the study of medicine at St Barthalomew s, London, where he became cascally physician, afterwards transferring himself to the children a bospital. He retired from practice over thirty years ago. Dr. Bridges has written various plays and poems Among his publications are an easy on Milton's proacdy, a critical essay on Kests and a number of shorter poems and plays among the last being the Grove the Grove. Prometheus the Frequer, Eros and Psyche 'Nero,' Humours of the Court, 'Fess of Bacchas, 'Christian Captives,' and " Ulvener'

LITERARY NOTES.

'Early Wars of Wesser' is the title of a series of historical stindies by Albeny F Meyer which the Cambridge University Press has nearly ready, dealing with Leglands first echool of arms in the Wes-Country, dating back to the pre Norman period.

Messrs Rouledge are extending their series of dictionaries of famous suthors with a 'Dictionary of Romance' by Lewis Spence; and the same firm have at press a book entitled 'All About the Boston,' dealing with the variations in the Weltz movement, by Mr. Edward Scott

Professor W. Flisjohn Trench, of the National Deiversity of Iredand, hear ritten as new commentary on Shakespare's 'Hambet, which Messra Smith, Elder have ready for sale. The subnor refristo from much criticism of a testual character, but he considered at some length the divisions of the sects, the secrepted division being in the best of the section of the section

The Syndica of the Cambridge University Press have decided to assue a series of booke dooling with the various subjects which fall within the field of syndical gradient of the control of the series will be called, will be under the general education judge of the Cambridge Psychological Library. The control of the Cambridge Psychology, and Director of the Psychological Library.

Rao Sabib G. V. Rammurrit, Iornerly lecturer, Rajoba College, Parlakindi, has translated and adapted into Telegus a short grammes in Dominh by Protessor, Otto Jeperson, Mr. J. A. Yates writes an Come to be translated and adapted and what purpose it intended to serve. The translator hope that this latter publication may be of some use to Teliqua the publication of the companion of the contraction of the companion of the companion of the good many points which are not mentioned in the ordinary English Grammars.

Mesers. Macmillan & Co will publish shortly a volume of addresses, by Mr James Bryce, under the tille. "University and Hatorical Addresses," "Economic Liberalism," by Professor Hormann Lery; and "Indian Currency and Finance," by Mr. J. M. Keynes.

The Manchester University Press will shortly publish anew edition of the "Detical Works of William Drammond of Hewbornden," edited by Percisson Kastor, of the University Bulletin William Professor Restor, of the University Bulletin World William Professor William Professor William Professor William Professor William Professor William Professor Original Title Page, and sere portretts of the author, one of which latter before professor will be restored by collecting the professor will be professor with the professor will be professor with the professor will be profe

Oxford University Press. The biggest enterprise of all is in the form of a history of the language. This, the 'New Eoglish Dictionary' attempts to trece every word to its source, going as far back at the year 1200, the waying mage of reads poles are to the press. The source of the press of the press. It is moder the catter in 1883 and wars completion. The total cost will be about 2100,000.

Home University Library of Modern Knowledge. Cloth Is use Leather 2.6 d. not. The Eight Batch ready in July consists of Germany of Twoday Debuts Two Prof. 1.5 Farmer Ras.; The Writing of English by Fred. 2.6 Farmer Ras.; The Writing of English by Fred. on of Tmoght by Prof. 1.6 Bury. Lub. The Ocean of Tmoght by Prof. 1.6 Bury. Lub. The Ocean Consists of Consists o

Grandi, Nes Rock, Hinteriada The Air King's Treasures by Chuod Grahama Whise and H. Happer, 2s. 64; The Gragaman by W. Bourse Gooks, 2s. 64; The Bry's Book of Battlee by Frew Woods, 2s. 64; The Bry's Book of Battlee by Frew Woods, 2s. 64; The Adventures of Flyllis by Reside Murchant, 2s. 64; The Adventures of Flyllis by Reside Murchant, 2s. 64; The Adventures of Flyllis by Reside Murchant, 2s. 64; The Adventures of Flyllis by Reside Murchant, 2s. 64; The Adventures of Flyllis by Reside Murchant State of The Company of Programmer of Programmer

Mr. Heinemann has just published the Collected Essays of Edmund Gosse, cn. Ltb. in 5 Volumes Crown Svo. 6s. each. (1) Soventeenth Cectory Studies (2) Gossip in a Library. (3) Critical Kit-Kata. (4) French Profiles. (5) Portraits and Sketches.

William Monis. A study in Personality, by Arthur Compton Rickett, London, Herbert Jenkins, 7a. 6d. net.

By George Sampson. Let us add in general conclusion that the book is really a capital performance, well-planned and well-executed. It has the right note. As commentary, criticism, and chronicle is equally useful 1 to contains much interesting matter not to be found elsewhere, and its concluding 50 page synopsis of contemporary history is a unique and valuable feature

In response to a number of requests received from teachers. The University Tutorial Press will publish shortly, under the title School F each Grammars, the grammatical part of Professor Warkley a Ministeal to Frenck Gourney, without heaven seen as and passages of the Grammar is nuteful. This repeats seen of the Grammar is nuteful. The seep the seen of the Grammar is nuteful. The seep that the contract with the contract of the common seed to the contract of the c

The new gillabas on the Principles of Teaching recently issued by the Board of Education for the Acting Teachers' Certificate Francistics in 1914 has considerably reduced the knowledge of Hygues required. The optional subject, Hygues and Thy assuerba knowledge of Hygues such as can be chiasted only from a book of the standard of the Price Book of Hygues for Teachers. For the asks of course prescribed in the spillabus for Principles of course prescribed in the spillabus for Principles of Carching as multi-ryolame has been seven disection with the main principle of School Hygues and which the teachers as called upon to deal in the ords may course of his work.

Junto Geometry is now in the Fresh This is a geometry on modern hine suitable for Jinnor Ulasees It connectes with an introductory course of practical work and contianns simple treatment of elementary geometry up to and including similar triangles. The book is will provided with exercises of all types. The book is absed upon the well known Geometry Horotical and Practical.

Macmillan and Co.'s Announcements of New

Books -

Mazaulay History of England, Edited by Charles Harding Irth Na. Professor of Modern Harding Irth Na. Professor of Modern Harding Irth Na. Professor of Modern Harding Irth Colore Uniform with the Hilberts led Julion of Green * Short History of the England Led Julion of Green * Short History of the England State of the Professor of the Professor

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A Historical Survey and Criticism By Canon Rashdall B. Constructive Statement By A D

B. Constructive Statement By A D Landsay Totor of Balliol College, Oxon III The Religious Idea of Property

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H G Wood, M A

IV The Present Situation and its Appeal By
Clean Sect Helland D D

Canon Scott Holland, D D

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with an Introduction by Charles Tennyson With

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Peems of Arthur Hugh Clough sometime Fellow of Oracl College, Oxford With an Introduction by Charles Whitley and a Portrest Crows 6vo 7s of A Twattse on Chemistry By Sir H. E. Roscoo and G Schorlemmer F. R. S. Tol. II. The Middle New edition completely reviewed by Sir H. F. R. S. James con assisted by Sir Henry Miers F. R. S. James on Example of the Computer of the Conothers 8vo St. net County Sir Sir Net Sir Net others 8vo St. net County Sir Sir Net Sir Net others 8vo St. net County Sir Net Sir Net Sir Net County Sir Net Sir

SCHOOL AND COLLEGE SPORTING NEWS.

Oricket at Bangalore

ST JOSEPH'S COLLEGES TWO MATCHES

Two matches were played by the St Joseph College Greeket seams on suit his Bingslore players at the St. Joseph's College Reve Crecket Fields and the other within Broyd Artillery on the Fields and the other within Broyd Artillery on the St. Joseph's College Artillery on the St. Joseph's College Artillery on the St. Joseph's College Artillery of St. Joseph's College Artillery of

In the match against the Royal Artillery, the RL Josephe (Ollege lost by 15 rons, the accrete being 8: Josephe 118 and Royal Artillery, 183. Carter and Vincy were the best howless for the Artillery, obtaining 4 wickets for 17 rons and 3 for 15 rons respectively, which their best betterming were Shearrengetic the state of the state of the State of the Joseph Joseph's Seaton proved the highest scores with 35 rare, Rele who took 5 welcts for 21 rons bing their the state of the state of the state of the and proved a mace interesting content,

want.

The Educational Review.

We have great pleasure in recording in these columns that four For the service Masters of Art of the Madras of the motherland University have joined the staff of the Hundu College, Tinnevelly, and undertaken to serve the College for 20 years, the salary of each being Rs. 100-10-150. They are Mr. N. Sankara Iver. (Mathematics) and L.T.; Mr. K. C. Viraraghava Iver. M.A. (Chemistry) and L. T.; Mr. A. Nilakanta Iver, M.A. (History); and Mr. P. Yagnesvara Sarms, M.A. (Physics). We congratulate the Tinnevelly Hindu College on this accession of strength to its staff and it is a good omen that a student of the same College should stand first in the list of candidates that passed the recent Intermediate Examination. These four young M.A.'s have set a good example to young men still at College, in having turned aside from lucrative professions. For so bad is the organization of public life in India that men who catch thieves and those who send them to jails can rise to very high salaries, that men who help thieves to escape punishment, who cause property to change hands by practising the game of hair-splitting, but whose labour does not add to the wealth of the land by one grain, can pile their thousands, but the poor educationist who trains the rising generation and who is really responsible for the making of the It is characteristic of the highly enlight-

The four sessions of the Mysore Economic Conference

ened nature of the Mysore Government that in the forefront of the activities of the Mysore Economical Conference is placed the

question of Education and that Agriculture and Industries and Commerce come after, thus recognizing the great truth that Education is the first source of the growth of the wealth of nations. In the words of the President, Mr. H. V. Nanjundayya, (kindly supplied to us by its Secretary), " if the intelligence of our people is kept undeveloped, their skill ontrained, their activities unstimulated, the average standards of working and living will remain low, and the country will continue to be populated, as at present, by ignorant, unskilled and indolent masses who, in times of scarcity or stress, will be unable to help themselves. Safety therefore lies in educating the people and equipping them with skill and science and keeping them active (the italics are ours). This is what His Highness' Government have in view in introducing the various measures for improving the economic efficiency of our people," In accordance with this ideal, we find that the first portion of the Report contains papers on educational questions of the greatest import and the first resolutions deal with the same subject. Medical inspection of school children, religious and moral education, the Mysore University, compulsory education, female education, Normal Schools, continuation classes, immediate future history of the land, who public libraries, physical culture, curricula spreads knowledge and thus contributes to of studies, encouragement of Canarese literthe growth of the country's wealth, who ature and practical education were either trains the faculties of the young and makes discussed or recommended to be investigated. possible the development of the country is a Of these, the question of religious education despised creature and can never be above was debated on and we are glad to report that

it was dropped Religion should, in the present irrematures of the country, be the last thing that should be permitted to enter the school room. Our children have plenty of it (and not always of the right sort) as it is outside the school room.

This question, so thoroughly ignored in the Madras Presidency, was Medical the one on which the inspection of school children Mysore Economical Confer

ence passed its first resolu-This resolution requires among other things all medical officers to regard it as their duly to inspect all pupils in all the schools in their station. The great need for the periodical medical inspection of pupils in this country is too patent to require any argument. The troubles of school children are due to the atter ignorance of modern bygiene among the people. We are aware that so far as cleanliness depends upon ablution, the classes from whom the average school child is drawn are fairly clean, especially if they happen to live in places where there is a large water supply But the average parent is bonelessly ignorant of the part played by bacterial germs in causing disease and so overridden by a superstitious addiction to so called sacramental cleanliness but real, visible dirt as to spread a paste of cowdang under his leaf platter (or as Albertan cleverly put it, use a table cloth of dung), to swallow the excreta of cows in the name of holiness and to do a thousand other acts that help to spread disease. This appalling ignorance leads to the spread of disease which becomes accentuated by the congrega tion of children in over-warm, ill ventilated school houses Hence the need of a periodical medical inspection of schools and school children is imperative. Moreover in most schools, the furniture used as of antiquated. absolutely unhygienic patterns, children sit on them in cramped postures, such as would check the free circulation of blood and prevent the lungs having full play Classrooms are frequently arranged without any regard to glare falling on black boards or what is worse right against the even of Defects of vision, disease due to the alarmingly fast spread of ciparette-smoking and other unnameable vices, which the average school teacher can scarcely detect. abound in boys at school None but a trained medical man can detect and remedy these numerous evils. As doctors cure the present generation of fully developed diseases. it is their duty also to nin evil in the bud in the case of our schoolboys who will form the next generation In our view, the latter duty is much more important than the former.

We wish to place before the people who, at the bidding of a small Science and minority of Fellows of the National life Madras University, desire to shatter to pieces the, as yet not extensive enough, organization of science teaching in our Colleges by demanding that an unwilling, hopelessly mefficient and too soon forgotten atudy of our ancient vernacular literature should be made compulsory in Colleges at whatever cost, the same of the British Science Guild which was presided over last year by Lord Haldane and is presided over this year by Sir William Mather The British Science Guild exists for teaching the vital importance of using scientific methods in the common things of life Sir David Gill, speaking at the banquet of the Guild, after deserthing the various steps in the progress of science, said, "All these are steps in the progress of mankind, in the betterment of the conditions of life, which we owe to science and science alone. I am aware that there is still a school of men who contend that we are no happier or better for this progress. [These words exactly hit off the position of our reactionaries who, so persistently, fight in our Senate against the progress of scientific study in our University]. I need scarcely say that I do not agree with them; but I do not propose to bore you with arguments on so trite a subject; the simple fact remains that if we, in these little islands of ours, do not progress with the times by the aid of science, we shall be left behind in the race of progress." If this is so in the case of England, what will it be in the case of our country where the science that is learnt in Colleges is that fit for a good High School and where the science that is pretended to be taught in High Schools is less than that which ought to be learnt in a well-organized Elementary School, and where the people that study are lamentably few, those that allow science to influence habits of life are fewer and those that use science for improving their daily work can be counted on one's flogers! Even this little science, misguided enthusiasm wants to stifle out, in the name of Eastern culture! That educated gentlemen should fight against the spread of national eduestion, that liberals in politics should fight against progress in education, almost unsettles one's faith in human nature.

The Royal Commission on University Education in London has among

The School Leaving Certificate in
England the adoption of some form
of the S. L. C. "The nor-

mal qualification for admission to the University will be a school examination based on

the curriculum of the school. There should be two such examinations. A lower schoolexamination planned for pupils of about the age of sixteen, which should be a test of general education, and a higher school examination planned for pupils of about the age of eighteen, which should be suitable as a test for pupils whose course has to some extent specialized." Either certificate will qualify for admission to Colleges, but the higher certificate will entitle the student to be excused the Intermediate Examination in the subjects in which he has secured the This peculiar higher school certificate. system of double certificates has been necessitated by the fact that English Schools and Colleges have evolved independently of each other and therefore school carricula and college curricula, in many cases, overlap. Moreover, in England the average schoolleaving age is eighteen or nineteen and not fifteen as in India where every parent desires to see his son in College as early as possible. Sometime ago, we advocated the introduc-

tion of a Lower School A double S L C Leaving Certificate in our in Madras. Presidency. The recommendations of the Royal Commission referred to above gives as an opportunity for discussion again. Our present S. L. C. Scheme has given us a special unity to the work of the IV, V and VI Forms of our High Schools which it had not before. This work is "to some extent specialized," like that which pertains to the higher certificate proposed in London-We, too, want a lower certificate relating the "general education" which is given in our what were once called Lower Secondary Schools. Recently our Educational Department has unsuccessfully tried to wips out the individuality of these schools; it has tried to induce people to conceive the High School as one indivisible unit and in the promulgation of this idea, tried to "affiliate" incomplete Secondary Schools to complete ones. But among other things, the S S L C scheme by endowing the work of the three higher forms with a special individuality has contributed to sharply the special work covered by the scheme with the general education given up to Form III The former is conducted in English and the latter in the vernacular and up to Form III. English is taught as a (foreign) language and is not used as the medium of instruction It is high time, therefore, that the separation of school work into the Lower Secondary and Upper Secondary be reintro duced This will give room for the introduc tion of a Lower Secondary School Leaving Certificate scheme For want of such a scheme, the work of the higher forms is still hampered by the retention of subjects which really belong to the lower school The B subjects of our S S L C ought really be done in the Lower School in the pernacular and the time devoted to them in the higher forms used for more work in English and in the special subjects Some such scheme will relieve the immense strain now felt in the higher forms and also make the work of our High Schools much more satisfactory than now But to make some such scheme possible school life must be made longer than now by at least three years, provision being made for exceptions who might like to push on early for going to Eogland to complete their education

What we call composition is called "free"

The Marking of Epishem Stree composition in English schools, for they call composition what we call

translation I be marking of free composition in many schools is done very and fferently A writer in Modern Language Teaching describes his own method of marking which we commend to the attention of our English (and may we add) Verpacular masters Jameson writing of English schoolbovs learning French, expects them to write 100 words in 20 minutes on a subject based directly on the text read during the term For an "unseen" subject he would allow 30 minutes for 100 words, but English composition on ' unseens" has been practically abolished from our schools, we shall discuss only the marking of composition on subjects selected from the books read Mr Jameson would expert 600 words in two hours. Nov. 600 words of ordinary handwriting would cover four folio pages If we compare these figures with what the Madras University Matricula tion Examiner expects of his examinees, we are bound to infer that the Madras Examiner has been so far, as extortionate as Shylock English, to Indian boys, is more foreign than French to English boys, the difference of idiom and structure between English and a South Indian vernacular being much wider than that between English and French Yet the first naper in English in the Matriculation Examination, as things go now, cannot be answered in less than sixteen pages, four times what Mr Jameson would expect, and the candidate, who has been hadly trained. writes twenty to thirty pages As this is a question which has a vital bearing on schoolwork we will return to it in our next issue Meanwhile we will return 'to our muttons' Mr Jameson would allow ten marks for every hundred words required and "take one mark off for every three mistakes, so that if a composition of 100 words has thirty mistakes

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in it (or more) it receives no marks at all. I do not find it, as a rule, necessary to discriminate between slight and very had mistakes, the one kind balancing the other on the whole; where, however, blunders of a very gross kind are repeatedly made-e.a., in the use of imperfect and past definite [the correanonding thing in the composition of Indian boys would be the systematic violation of the sequence of tenses]-the composition is expressly penalized. No blanks are, of course, allowed in a free composition, each blank left, being as a rule, counted as three mistakes." Another vexed question in marking free composition has been very satisfactorily solved by Mr. Jameson. "In counting the number of words written, the continual repetition of the same words and expressions-'padding,' that is-is watched for and discounted. This does not, however, annly to the 'animning out' of one poor idea. so long as variety of expression is secured. On the other hand, a particularly well-knit and well-thought out composition, say, 85 or 90 words, fairly covering the subject. will be reckoned as equal to a mere rambling one of 100 words." So far the method of marking looks terribly statistical and mechanical. This is moderated by Mr. Jameson by general impression. " Before this mechanical marking begins at all, I read through each composition, recording it mentally as an 80 per cent., 70 per cent., 55 per cent., 30 per cent., composition as the case may be; the result given by the mechanical marking usually corresponds; in any case, the balance is finally struck on further consideration," We recommend this system of marking to be tried by our readers and request them to write to us how it works. We will take up this subject again when our public examinations are being held.

Mr. Alfred Austin died in June last, rendering vacant the poet-lau-

resteship which has been The Post Laureate. "virtually vacant since the death of Tennyson. Mr. Austin was a writer of powerful leading articles in the conservative interests in the Standard. The sward of the poet-laureateship as a reward for excellence in political polemics was one of the grim jokes which amused the soul of the master-statesman, Lord Salisbury. Mr. Austin's 'poet's eye' was totally blind to the polish of Tennyson and the condensed tabloid location (if we may be excused the phrase suggestive of bitter drugs) and dramatic genius of Browning ; Mr. Austin's Pandit soul revolted against the vigorous vernacular of Mr. Kipling and the great manner of Francis Thompson. He swore till the end of his days that none of these were great poets and believed that the whole critical world which had adjudged him a minor poet was "saturated with prejudice and steeped in party spirit," One of the most eminent of living singers of English song, Mr. Robert Beidges has been appointed in his place. Mr. Robert Bridges has besides his poetical work, devoted much time and energy to the question of conserving all that is musical in English speech and securing it from degenerstion. We wish that his artistic soul will not be compelled to do indifferent work in justification of his laureateship, for even Tennyson when he wrote poetry to order, could not give of his best. The poet's engle soul can float only in an atmosphere of perfect freedom ; compulsion can but produce Pandit-poetry of which we have reams in this land, as our schoolboys know to their

cost.

The only use of sugar most people are acquainted with is its use Sugar in in eating Some people manufacture

know that it is used for bardening mortar This hardening action of sugar on mortar was known in Ind a more than 2 000 years ago The ancient Romans imported super from India for this purpose and they called it 'Indian Salt' Some aucient masonry treated with sugar still stands in good condition. In our own days, the Museum of Natural History in Berlin has been rebuilt with mortar containing one part of lime one part of sand and two parts of sugar Modern industry uses sugar in innumerable other ways Copying ink is made by adding one part of sugar to three parts of writing ink Sugar is used in the silvering of glass mirrors. It is used in several chrome tanning processes as well as in dveing Some analype dyes contain as much as 90 per cent of sugar Over thirty kinds of explosives contain sugar Moreover augar is used in the manufacture of transparent soap, in which

industry many tons of sugar are consumed

every year The shoe blacking industry is another that consumes sugar

Col Burrard, Surveyor General of India bas in a communication to The roots of Nature completely upset monnteine

the old theories about the origin of mountains. He disposes of the theory of the fluid core of the earth shrinking away from the onter crust by pointing that when heated rock or glass shrinks this phenomenon does not take place, but on the contrary, it is the surface that cracks Col Burrard suggests that under the clay of the Indus and the Ganges, there is concealed a huge crack of the earth's crust which crack provided the force which thrust the Himalayan up According to the old theory, mountains float in the dense liquid core of the earth as ice floats in water . if so the 4-mile height of the Himalayan range is supported by a 38 mile depth of rock below But pendulum observations at Himalayan stations disprove this and therefore the floating crust theory of which it is the sequence Col Burrard's views are also in a line with recent American opinion of the subject.

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INDIAN EDUCATIONAL PROBLEMS

By The Hov T V Semannic Arran, BA B L

It is hardly recognised in this country that
there is any educational problem at all it is
considered more as a rule of three where, given
a certain som of money, the question will be
how many echools shall be started and where
they shall be located. If there are other ques
tons coming up for discussion they relate to
the affination or dissifiliation of institutions
and they have no connection with the fundamentals of the educational problems. I do
not think the Government of the country
recognize that there are pressing and momen
tons educational problems to be considered and
sixted. Certainly they would not admit that

a non official like myself is capable of dealing with the educational problems of the country. None the less, in my opinion, there are very serious questions connected with education to be discussed, and although it is not possible to exhaust the various aspects of the ques tions and the various subjects connected with education at one meeting, I want to draw your attention this evening to a few funda mental propositions, I shall discuss the ques tion of education from three standpoints. namely, education as it affects the people of this country, education as it affects the country itself and education as it affects the services in this country I do not claim that these quisions are logically exact, but they serve the purpose of enabling me to state what I have to say from these three stand points There is one matter for congratula tion which I shall bring to your not ce at the outset and it is this. Ten years ago it was considered that every departmental difficulty experienced and every purest the country antiered from was attributable to edu cation That was the policy and view of the Government ten years ago Fortunately for us all a new view of the purpose of education has been metilled into our minds by the advent of our Gracious Sovereign King George in reply to the address presented to him by the Calcutta Convocation said that it

is by the spread of education that nurset can be removed, that it is by the spread of education that programme can be removed, and that sanitation and a healthier life can be given to the people only by the spread of education. Therefore, the view taken by our Gracious Sovereign was fundamentally opposed to the view which prevailed ten years ago. As a result of this new state of affairs larger grants are being given to education than ever before. Ten years ago educational grants were made only after having financed all the other departments. To-day, the needs of education are considered before making grants to various departments. The question is how shall this awakening, this new spirit in education be utilized for the furtherauce of the canse of the country.

Ten years ago, as I told you, an attempt was made to check the spread of higher education in the belief that it is by the spread of higher education that unrest was being engandered in the minds of the people. Then a further idea took root that elementary education should be more largely given and that higher education abould be made self-supporting. The idea then was that elementary education, secondary education and University education should be recarded as three different branches with no connection with each other. The idea was that there were certain persons who were entitled to receive elementary education, that others should be given secondary education and should stop there and that a third class which was able to nav its own way should be given higher education. That idea should be completely changed. The move in this direction comes from England. About a fortnight ago Mr. Joseph Pense. Member for Education in England, in presenting the educational budget, stated

that elementary education should be a part of University education. We have not got a verbatim report of his speech now, but we know what he meant because four months aga he spoke upon this subject. Not only be, but Lord Haldane and Lord Crows speks on the subject at a complimentary dinner to which they had been savited. At that dinner Lord Haldane said that the object of the Liberal Cabinet is to give education to the people in such a war that the best intellects shall be brought to the top. The Lord Chancellor explained it by saying that elementary education is the Lirth-right of all and that it should be given to every one. If a boy shows capacity and more than average intelligence, but is poor, it should be the duty of the State to enable him to pass from the stage of elementary education to the stage of secondary education. Then again, if in giving secondary education it is found be is a remarkably clever young man and that he is unable to pay his school fees for pursuing studies in a College, the State should come to his aid for the purposes of giving him higher education. The Lord Chapcellor said that it is in the interest of the country that the best intellects should be brought to the top. It is not in the interest of the individual alone that the State should work up in this direction, whether the individual entered any department of the State or any independent profession. The Lord Chancellor said that in the course of a year a Bill would be brought which would give expression to these ideas which were working in his mind. He used a metaphor which is very significant. He was, you will romember, War Minister before becoming Chancellor and he said there must be one single army corps and that every soldier must aspire to become the Commander-in-Chief, a General, Captain and so on He said that it would depend upon the endurance of a man whether he is Captain or a General or a Commander-in Chief, but that there should be no restrictions placed in the way of a soldier attaining the highest possi ble position. He said that the education scheme must be so framed that it would bring out the best that is in man so that every one who shows exceptional capacity would be able in the end to come out at the top and be of service to his country. If that is the view which Lord Haldane is going to press upon the British Government, I think that view is more necessary in this country than in England In this country for a long time only certain classes have been in the habit of giving themselves education and other classes have been neclected. There are talents which are not brought to the top and as the Lord Chancellor would say it is the duty of the Government to frame the educational policy in such a way that the best intellects and talents wherever found, in whatever community, shall be brought to the top so that every exceptional intellect and talent may be of service to the Government and the country In this connection I desire to quote to you a very pregnant utterance by Preendent Wilson of the United States The language which he employed has taken my fancy so much that this is not the first occa sion that I quote his utterance I quoted it at another place in referring to the elevation of the depressed classes. If has be said was that nations are made from the bottom and not from the top, that genius springs up from the ranks of the unknown and that the real wisdom of human life is compounded out of the experiences of ordinary men. The phility, the vitality and the fruitage of life does

not come from ton to the bottom. It comes like the patural growth of a tree from the soil un through the trunk to the branches and the foliage The idea underlying this atterance is that you should educate the classes which have not hitherto received the henefit of education and try to find out and bring un the best intellect in whatever community it might exist so that it might be of service to humanity You cannot always depend on intellect which has guided the destinies of world The endeavour of the Government of any country should be to educate the lowest classes in such a way that the dormant talents in that class should be brought up to the top and made available to the Government and to the country The educat onal policy of this country must be so shaped as to make elementary education compulsory on all . it should also be a part of the University education and that secondary education should be the intermediate step and these three different branches of knowledge should not be kept apart from one another That is the problem which you should press upon Government and which I hope the Govern-

ment will in the fulness of time recognize. The second problem is what is the nature of education which ought to be given to the people. In this country for a long series of years before the advented first British role we were in the habit of receiving literary education and if I am not matches in my reading of history, that has been the run of this country. Is has eachled as to survive certain attacks and it has saved us from the certain attacks and it has saved us from the distriction whereas other nations have died. But unfortunately it has not made us a nation able to stand against other nations in competition, and consequently the first question that has to be considered in whither the prototion sur-

cession by which the British Government have followed up this literary education in this country has been rightly done and whether the time has not come for a change in the nature of education. In the course of a lecture on the education of the citizens given by the Bishop of Southwark about four months ago, he pointed out, speaking of England, that the education given by the Universities of Oxford and Cambridge was not the sort of education that Englishmen wanted and he said that the education that was required by the people of England was that kind of education that would make them use their eyes and hands, education which would anable them to earn their livelihood and to supplement the resources of the country. It is curious that in the "Review of Reviews" received a week ago there are three articles upon this subject written by three different experts. They all referred to the same question and all expressed disappointment and dissatisfaction with the existing state of affairs and they all say that the time has come for a complete change in the carriculum of studies in England. One of them. De. Grey, says that the education given in England is fit only to produce schoolmasters and curates and that is not what the country wants. I doubt very much whether we can cay as much of the education given in this country. Certainly education given in our Universities, I do not mean any offence to the schoolmasters here, is not believed to be capable of producing good schoolmasters. We are told that Indian schoolmasters should not go beyond a particular step, thay are to teach only up to a particular standard and after that somebody else should look after the students. The authorities are not satisfied that our Universities and Colleges really

produce first-rate schoolmasters. Are we producing curates in very large numbers? Seeing the curriculum of studies suforced in our Colleges I doubt whether it is possible for any one to have still something of religion left in him after the College course. We cannot therefore sav of our education that it either produces good schoolmasters or good curates. Therefore even the recommendation which the English system of education has is wanting here. Mr. Morgan in the "Review of Reviews" says : that a remedy can be found for this by making Universities give business diplomes. That will only go some way towards remedying this evil. In England there are Commercial Colleges and Universities. Still disappointment is felt at the nature of education given in Oxford and Cambridge. If it is so in England where commerce had gained such a strong footing and where there are Commercial Colleges and Universities, what shall we say of the education that is being given under the auspices of the Government in this country. There is no doubt that Government will have to change its policy altogether.

So far as the Madras Government is concerned an attempt was made seriously and strongly to supply this defect at the Conference held in Ootacamund in September, 1908. It was recommended that Commercial Colleges should be established all over the country and that there should be experimental factories established in which education in industries should be given and that that alone would eatisfy the requirements of the country. The proposal of the Madras Government went up to the Secretary of State and it was a Liberal Secretary of State who brought up the old formulas that the State should not be in competition with private enterprise, by pioneering industries and subsidising industries The Secretary of State sent out a Despatch which, so far as its English goes, is one of the best Despatches sent out from England But it left a good deal to be desired. The result has been that this aspiration of the Madras Government to help the people of this Presidency in the matter of industrial progress has been nipped in the had I believe that the time has come for the Government of this country to stop any direct attention being paid to Arts Colleges for fifty years and more There have been model Colleges all over the country These model Colleges have enabled other bodies. Indian, Missionaries and others to start Colleges of their own So far as pure literary education is concerned in my humble opinion that must be left entirely to private bodies and those sums of money which the Government are spending upon the main tenance of model Colleges and which they propose to uncrease also by the establishment of model schools should be utilized for the purpose of establishing Commercial Colleges and experimental factories for imparting industrial education examine the statements made by Lord Morley in that Despatch that the State should not encourage competition with private enternose and should not subsidize and moneer industries. If you have been reading the debates in Parliament you will find that about five years ago the present Chancellor of the Exchequer asked from the Government for a large sum of money for the purpose of subsidizing agriculture lou see that in Empland where there is a good deal of commercial enterprise the State does not went to embeidize industries. It is a country in which sufficient attention is not paid to agriculture So, a fand called a Development Fund was

sanctioned by Parliament for the purpose of enabling people to clear forests and to bring large tracts of land under cultivation and otherwise belp agricultural pursuits. In that not subsidizing? Again large sums of money are to be given to cotton growers to push on cotton trade Is that not subsidizing industry? Take the Railways in India Is not Government competing with private enterprize in spending large sums of money in pushing on Railways? What about the funds which have been given for starting tea and coffee industries in Assam and elsewhere? I can multiply instances The truth is the interests of Manchester are paramount and no Government in England will dare to go against the wishes of Lancashire and Manchester That is why they are not willing to have experimental factories started in this country and to give industrial education more largely than has been given hitherto I must sound a note of warning although I know I am too insignificant to be taken note of by Government If you are to spend money required for education, if you are to improve sanitation, if you are to make the condition of the people better than ever before, and if you are to put down epidemics, you will require large sums of money for all these purposes and you can no longer tax the land You must get this money from the industrial development of the country, and unless you are prepared to give the go-bye to the old maxims with regard to sub-idizing, etc., and unless you are prepared to come to the rescue of the people by starting Commercial Colleges and factories, you will find yourself in a position of bankruptcy Until the people are awakened to a sense of responsibility, the Government may not heed this warning and I sincerely hope my feeble voice will find

echoes throughout the length and breadth of this land.

The third subject of my lecture raises the question whether the carriculum of studies which the University is now enforcing is calculated to give to the services, whether Government service or independent service, that amount of knowledge, and education which those services do require. I am particularly referring to what I cannot help calling as a craze for specialization. What happens to-day is this, a how in the fourth form is required to specialize and is asked to choose what particular branch of study he should take up. Our boys are no doubt precocious. but I should think that it is too much for Government to expect even them to have that extraordinary knowledge at that stage of studies to make un their minds about their future. Many a young student finds that he is utterly mistaken in choosing a particular course of study and that he is a ruined man. From the point of view of the services is it right that these boys should specialize from the fourth form? Twenty-five years ago the state of affairs was quite different. Before one was asked to specialise, one had to study something of Physiology, European History, Indian History, Montal Philosophy and the Vernacular. That general education enabled him to think for himself and to make his choice. Further that amount of general knowledge is absolutely necessary to enable a specialising student to understand his subject fully. To my mind above all things an attempt should be made to reverse this policy of specialization and to go back to what existed twentyfive years ago. Otherwise our boys would be ruined and the services would be ruined.

The Bombay University has resolved upon asking Sir Alfred Hopkins to be expert

adviser to the University. Madras may some ask for an expert adviser. What is this expert adviser to do? Does he know the mature of the country, and the requirements of the people? Unless a man in competent to speak on all these matters no expert adviser would be of any use to us. I hope we shall not follow in the footsteps of Bombsy in this matter. We should prefer to have some committee of enquiry to ascertain what is best for the country and for the services.

THE CORRELATION OF HISTORY

(Continued from the last issue.)

GROGRAPHICAL INFLUENCES IN INDIAN HISTORY.

- I. Situation in the middle of penicular system of South Asia. Access to the Irania and Central Asian plands—Arabia and the lands watered by the Eophrates and the Nite. The sites of some of the great empires of ancient and mediaval times.
- 2. The physical isolation of India from the rest of the world. The sea; the impassable barrier of the North, Absence of trade or communication with Thet and China, sed the small proportion of the Thetan and Mongoloid elements in the population. The gates of the North-West, the spread of conquest and civiliaation along the India and the Ganges—The Aryans and the mixed Scythians—Rajaputana, Malwa, Western coast. The importance of Delhi as an im-

^{*} I am glad of this opportunity of making grateful acknowledgments to Mr. J. A. Yates, H.A. and Mr. C. K. Govindarso, H.A. L. T., for reading the syllabuses and giving me the benefit of their value able criticism.

perial capital and of Simla as the summer residence of the Imperial Government battles of Knrnkshetra (one). Thalawari (two). Paniput (three) The Vindhyan system, a barrier damming back the flood of Arvan civilisation, and keeping back the Mohummadan conqueror for four centuries The inability of the Delhi Emperors to keep a firm hold on their provinces in the Deccan The Western Ghats, the customs of the Malabar Coast, the Bhore Ghat the Thal Ghat, keys of the Deccan against the West Coast railway routes Moghuls and the Trayancore coast strip The mountains and hills, refuge ground of the aboriginal tribes Hardy mountaineers, Pathan tribes, Ghurkha Want of common ties among races militia living in mountains. Chin hills in Burms The importance of the Bolan Pars, its dis advantages The railway The importance of the railway system of the Punjab The forward school and the school of masterly mactivity Hill stations

3 The Himalayan Passes Mulla Pass Alexander the Great's march from India The strategical position of Delbi The ancient Indian capital, its disadvantages The Thal Pass The importance of Multan as a trading Nader Shah back with his hosts to centre Persia Gomal Pass An important trade route from Kabul to Bokhara into the Puniab The Kurram Pass The site of ancient towns The Tochi Pass, shortest route from Ghazni into the Punjab Muhammad of Ghezmi lead his army for the plunder of Multan in Sind The Khyber Pass Aryans, Scythians, Greeks, Moghuls, Persians Turks, Pathans its importance in deciding the destinies of the vellow race Swat Panikors, Chitral and Gilgit Passes, later tribes of the Aryans, Alexander's march into the Punjab.

4 The Patkai hills Mongoloid tribes in Burms, Assam and Bengel Difficulties in the coaquest of Burma. The Western Ghats and differences in the development of the early Eastern and Western English settlements.

The N W Frontier Province difficulties in conducting military campaigns Comparison with the first stages of the Boer War The Buffer State of Afghanistan

- 5 The Deccan plateau dry and comparatively cool climate The Mihlary vigour and enterprise of the inhabitants, lindu and Mchammadan Kingdoms in the Deccan—Mysore, Vizianagar, Bhamini, Hyderabad The descent from the highlands of Mysore to the plans more abropt towards the West than towards the South or East Mysore dominated historically eastern and southern plans rather than the adjoining narrow strip of the West Coast
- 6 Malabar Coast nearer the centre of the great empires of ancient and mediaval times than the Eist Coast Poreign invasions naturally to be expected on the Western Coast, but hydorically rare or not happening
 - 7 Fertility of Baluchistan, The Saras wat: The original direction of the lower course of the Indes Communication with Ceylon by Adam's Bridge and with Burma by the Arakan Coast
- by the Arakan Coast

 8 The great mountain ranges enclosing
 the Decean plateau on two sides The minor
 ranges breaking out from these. The dry
 and brazing climste The sterile soil riggedness and unevenness, the hill forts The
 position on the high road between Northern
 and Southern India a commanding advantage
 denied to the other tablelands of Mysore
 and Malwa The Maharatta Confederacy
 The geerilis warfare, comparison with similar
 physical features in the centre of Ceylon

North West Frontier Province, Transvaal, the Grampians, Wales. Difficulties in the colonisation of India by the ruling race, use of hill stations : frequent forloughs. The Arvan and Muhummadan conquests from the N. W. The British acquisitions in South India and in the extreme east of N. India. Reason for the difference. The most essential need for India's physical welfare, the timely arrival and beneficent violence of S W. Moneoon winds breaking against the strong breast of the Himalayas and thus discharging their torrents of rain. Indra the thunderer ; Marats, the storm winds, his beloers and friends : cloudland, the middle reigon : clouds, the cows; and rain, the descending milk.

O. The sests of early civilisation and trade. The course of tribal migration. Mother Ganges, Kareri delta and falls. Krishna and Godavery, Nachoda and Tapati. Sendy deltas, marshy swamps and bars together with the straight nabroken coastline and want of good harbours. Absence of the requisites for training a race of salions—exception S. W. and S. E. coasts—settled life in the plains. Less wardite.

lower course of the Ganges; the modern province of Bengal distinct from those along the upper course of the same river, mealty included in the United Provinces of Agra and Oadb. South Bibar and Tribot (ancient Magadha and Mithila) associated historically more with the upper than with the lower provinces.

10. The history of the countries along the

11. The Lost river; the Hakra or Vahind in Rajaputana. During the Minhammadan period boundary between Sind and India. The disappearance of the river in the 18th century, and the consequent desolation of the land.

12. The arid plains of Tienerelly and Madera in the south-east of the peninsula; a well-marked natural feature becoming the seat of a separate kingdom, that of the Pandyas at a very early date—(also accounted for by ethnic differences)

13. The aballow sea-bed of Aryslur and Utalter in the Tanjore district; the boundary between the northern and the southern

empire. 14. The plains of the south-east hot and fertile inhabited by industrious people skilled in agriculture and commerce but with little leisure or energy for war and enterprise. Flourishing kingdoms and empires of the Infinite variety of races and Carnatic. languages, strong jealousies. Part played by the gorgeous display of the French. The French and the Lowlanders, the English and the hardy Highlanders. The Tapti and the Narbada valleys; great kingdoms and civilised nations. Arab element in the population; the coast route from Baluchistan into Sind. Early conquest of Sind; route taken by some of the Aryan and Scythian tribes, the Medes, Chaldeans and Persians.

15. The riches of Tamil lands especially pearls and spices sought by foreignest by set, not over land. The esgerates of mechasic of European Naval States to secure the trade in these precious commodities; the cause of the conquest of all India by the subject of an island kingdom in the far West. The price of pepper, the origin of British Government of India.

16. Joint family and rapid increase in population. Forty heirs to a single occount tree. The civil war on micro scale in coarts, murders. India, a temptation to outsiders. Engration from India generally unknown. (The Tavances emigration from Gazera')

Dravidian Settlements in Malaysia-Ancient Indian and Buddhistic relicant the East Indian Archipelago, Dravidian trade and shipping) Nature an indulgent mistress Want of incentive to exertion, invention and enter prise , superstition the keynote, spirit of resignation. The mighty forms and forces of surrounding nature Nature worship and profound philosophy tinged with the melancholy of future oblivion The steamy fertile rice plains and the lassitude and effeminate character of the people. The awest pure air of the desert. The sharp extremes of temperature and the Raiputs The Punish The forests, the water logged and swampy plains. the scanty ramfall, the hot and dry climate. want of irrigation, the brackish water of the wells, the bitter cold of the nights-the warlike character of the Sikhs

GEOGRAPHICAL INFLUENCES IN ENGLISH HISTORY.

The meular position of England and its connection with (a) the independence with which more than one Roman ruler acted in Britain, (b) the claims put forward by the Anglo-Saxon kings to rule their own little separate world independently of the repre sentatives of Casar, (c) the practical isolation of the Church of England from the Church of Rome, (d) the interest evinced by her Norman kings, more in their island realm. (e) the attempts of Edward I, who was English to the backbone, to unite Britain, (1) the establishment of the system of scatage by Henry II, which exalted the power of the Crown, the representative of centralised national existence, (c) the national spirit which extorted from John the "Magna Charta" The "Silver streak" as affording freedom from sudden attack Freedom from continental squabbles The Norman conquest the last real invasion of England The dich that Napoleon in the height of his power could not

- 2 Roman roads, instruments of Roman civilisation, illustrate forcibly the geographical conditions, connexion between the modern railways, in particular, London and N.W. Railway, and London, Chatham and Dover Railway, variation of the route taken by the Midland The imperfect occupation of the country between the walls of Hadrian and Autoninus The extent of Roman civilisation and the thinning of it to the west. The possible need of co operation between hand and sea forces as influencing the choice of Roman stations in Britain, e a Colchester and Lincoln (Lindom) The consideration given by the Romans to the Iceni and Tripobantes who were defended by natural obstacles of forests, marshes and fens in the Roman stations at London, St Albans, Norwich (Cartannonum) and Colchester, Caractagus an l Caledoniana and the respect due to the defence afforded by mountains told in their stations at Gloncester, Caerleon-on-Usk, Uncomum (Wrozeter) Chester and the line of forts between the months of the Forth and the Clyde
- 8 Anglo Saxon conquest governed by geographical conditions, line from the mouth of the Tees to the mouth of the Severn and then continued to the south coast roughly divides the island into plain and hill regions Expalsion to a large extent of the Celts into the hill regions of the west and the north Intermixture of the Celts and Saxon elements in Souerist and in the bevern basin. The Testonic immigration almost entirely determined by geographical facts—Kent, Rommey Marsh and Forest of Andredesmend , Ensex

and forest between the north and aonth downs, survival of heathenism in Sassex when extinct averywhere else. Norfolk and Smifolk, the deep inlets of the fons, absorption of Essex. West Saxony, the slowness of its expansion. Northumbris, its rapid expansion. The delay in the establishment of the kingdom of Mercia.

4. The Danish incursions, the access given by the fens for their vessels of light draught to the very heart of the island. The disposition of the Danish towns with the geographical reason for it. The fusion of the Angles and the Danes. The two-fold part played by the fens in English History, Hereward and the Ely Fens—Alfred and the island of Athelney.

5. The conversion of England to Christianity. The landing of Angustine in Kent, and the spread of Christianity from Kent as the centre to Essex, Esst Anglia and Northumbria governed by geographical conditions of England. The seats of the original Episcopal sees, namely, Canterbury, Rochester, Winchester and Salishway, etc., located on a consideration of the geographical and political importance of the places mentioned.

O. The geographical differences originally quite natural, but artificially prolonged, between Mercia and Wesser and their itBosnes in deciding the issue of one of the most important stator in mirring the country. The creation of Palatine earldoms. The geographical bearings of the creation of Palatine earldoms. The geographical bearings of the creation of Paedal lords with large landed interests. Castle-building, the strongest position formed by emissences near streams. Many of these on sites of Roman fortresses. The tower of London, Windsor, Wallingford, Oxford, London, Windsor, Wallingford, Oxford, London, Windsor, Wallingford, Oxford,

Entrance to eastern counties barred by castles at Colchester, Ipswich, Norwich and Lincoln. The basin of the Trent by castles at Newark and Nottingham. The branches of the Yorkshire Onse and the strategic importance of York. The Aire gap, the Tees gap and Tyne gap guarded by the castles at Clitheroe, Bernard, Carlisle, Newcastle; Arundel castle in the valley of the Arun; Winchester in the valley of the Avon; Dorchester in the valley of the Frome. Exeter and Tiverton in the valley of the Exe. Taunton in the valley of Tone, Bristol and Devizes along the course of the Avon. Great entrance to the Midland plain along the Severn defended by castles at Berkely, Gloucester, Warwick and Kenilworth. The distribution of the lands of the great marcher families with the geographical and strategic importance of their castles, namely, Chester (N. Wales), Hereford (S. Wales) and Shrewsbury (Mid. Wales), Chepstow, Strongbow's fortress at the month of Wye.

The long period between the Norman conquest and the close of the middle ages shows but few changes in England which bear on geography.

7. The Wars of Rosee, and the Grat Robellion. The line roughly dividing the plain from the hill region; also the same between the parties. The preponderance of London and the south-east. Wales are lement to be recknoed with. Wales and Lacaster, Gloscester and York in determining the last campaign.

8. The position of London as the centre of land hemisphere; nearer to the greatest scaports in existence than any other city. The advantages of Ameterdam ples the invaluable security of being insular. Insular isolation, responsible for constitutional unity

and freedom The new type of men produced by Elizabethan age. Devonshire worthes

9 The division of parties in the Civil War fundamentally one of principles Possibility of attempting a geographical division Tectionic England as against Celtic Victory with the populous and progressive half. The guiding influence which thopgraphy had in the great campaigns of the civil wars Cromwell's skilful use of a geographical fact, the gap in the Pennies at the head of Aire Dale, Departure for political reasons from ordinary military rules, e.g the siege of Gloucester by Charles I in 1643

10 The Industrial Revolution Shifting of the centre of gravity of England from London towards Manchester, Leeds and Laver pool The construction of Railways. Direction in fairly close accord with geographical conditions as they are and not as they were How they emphasise the importance of the capital All roads lead to London The possibility of a redistribution of the industrial population in the near future, consequent on the introduction of Electricity as a motive nower The formstion of the House of Commons originally based entirely on Geo graphy Before the thirteenth century, the various administrative divisons became or game units The industrial changes brought about a shifting of the geographical distribution Bills are passed in Lancashire not in London

11 The existence of the Isle of Wight, the length and depth of the Thames excusary, the deep inlet of the Severr making land communication between Wales and Devon very long and circuitous The permanent importance of Gloucester (the lowest point at which the Severn can be bridged) in the military history of England, the Chevots, Carlisle

and Berwick The coset strip east of Lothian-Dunbar The Pennine Hills a barrier between Angle and Celt Four Scottish invasions of England on behalf of the Stuarts along the route between the Pennines and

the Irah Ses Preston and Worcester
12 The Great Northern Railway, many
places along the route mark the disastrous
termination of Scottish invasions of England,
Northallerton, Alnwick, Halidon Hill (of
Crecy) Nevill's Cross, Flodden, York, Marstonmoor

13 The proximity of Ireland to the south west of Scotland The conversion of Scotland by the Irish manks of Ions

14. The two deep niets of the Forth and the Clyde very nearly cut Scotland in half, all military movements tended to centre round Stirling which commands the Isthmus— Dunbar, Stirling, Falkirk, Cambuskenneth The Battle of Bannockburn,

The policy of Edward to unite England and Scotland under one king determined by the fact that both countries formed one homogeneous whole. The turbulence of the Scottish nobles under the Stnart kings and the consequent uprest and disorder to a certain extent attributable to geographical conditions Montrose's brilliant exploits Union of England and Scotland. the exclusive character of the Highlands troubles apprehended to be caused by them to the body politic of Great Britain overcome by the construction of roads. The peace policy of James I, the increase in population for want of war, the only check Colonial expansion

16 The position of Ireland. Its resources render it a dependency The Irish Sea and the Irish question, facilities afforded by the central plain to invaders. Mountains no effective natural boundaries. The effects of climate, dreastrons potato famine, antagonism between a small minority of one race and a peasant majority of another race, the lack of mineral wealth. Trade with Enghard determined by obvious geographical reasons and the poticy adopted by English statesmen.

17. British occupation of Egypt and Esstern Sudan; Railway from Port Sudan to Berber, and a second railway from Mombasa to the Great Luke Victoria Nyanza; Uganla Railway from East African Protectorate to command access to the Sudan by alternative rontes. The military tactics adopted by the British in the last two cammaigns in Evyot.

18. Canade, conditions favourable to the development of nations on the largest scale, political frontiers conventional; want of geographical insight of the British Ambassador in settling the boundary between Maine and New Bennswick.

19. The geographical formation of the lake region counted for much in determining the method of French advance.

20. The discontinuous character of the Appalachian system, the key to the conflict between the English and the French in the New World.

21. Dixon's line between Northern and Southern States of the United States of America. The importance to a fogitive slave of a knowledge of this piece of political geography.

22. Australia and "coloured labour,"

- 23. New Zealand and the "Maori question."
- 24. The geography of South Africa inatramental in favouring the apparently instinctive inclination of the Datch to isolate themselves.

- First stage of the Boer War determined by the peculiar geographical conditions.
- 26. The opposition of East and West from Roman times to the present day in its various aspects—topographical, climatic, political and economic.
- 27. The distribution of monastic lands in Britain from the Conquest to Henry VIII's time.
- The political influence of Wales and Scotland as geographical units of character on medieval and early modern history.
- 29. The distribution of Lollardy and the extent of the survival of antiquated thought and doctrine with the geographical basis thereof and its influence on immigration.
- The extent of enclosures in the middle ages and early modern times and their influence.
- 31. The parts of the British Isles, the coast lines of which are such as to attract the people to sea-faring.
- 32. The changes that might have taken place in the history of the English conquest had the Angles and Saxons landed on the west coast of England.
- 33. The parts of the west coast on which the Angles and the Saxons probably had formed small kingdoms and the belt of the country along which these kingdoms could have afterwards united.
- 34. The characteristics of the Irish, Scottish and Weish that are not found in the average Englishman.
- 35. The geographical reasons why English addiers were unequal to the task of attacking the Snowdon mountains during the conquest of Wales in the reign of Edward I.
- 26. The part of England in which Edward might have found soldiers able to fight in ...

- 37 The important towns in the Danelagh that stood in the Trent basin and the bay and treers by which the Danes could have reached the other ruling centres of the Danelagh and whether an invading army is likely to enter this bay now
- 38 The lands from which the earliest invaders of Great Britain could reasonably be expected to have come, from Roman or Tentonic lands
- 39 The geographical circumstances that ensured to Ireland the peace for a time in which to develop her ancient civilisation
- 40 The foreign peoples that invaded the British Isles from the time of the Romans to that of the Norman Conquest and the names of such of them as reached Ireland Whether the civilising inflaences came from Roman or Tentonic lands
- 41 The bistorical reasons for the complete absence among the national emblems of the British Isles of any symbol connected with the sea The design which is more truly national than that of St George and the Dragon.
- 42 The geographical reasons for the positions of different frontiers that existed at different times between northern and southern Britain
- 43. The difficulties due to the geographical features that the English met with in conquering the south and east of Britain
- 44. The position of the mixed Gaels and Inversions before the Roman Conquest with the position of the Britons in the map of A D 650 Explanation of the general similarity of the positions of these races
- 45 Supposing that Scotland were divided up into little kingdoms, the region in which the strongest states might reasonably be expected to exist.

- 46 The parts of Britain south of the Tweed, the inhabitants of which most vigorous by resisted the Romans held out longest against the English, disliked the reformation the similarity that exists in the positions of these districts.
- 47 Why Gloucester took a different side from that taken by the county districts of the west both in the Wars of the Roses and the Civil War
 - 48. The reasons for the fact that the largest memorials of pre historic Britain are
 - found in the chalk downs of the south

 49 The advantages which York as capital
 of Great Britain south of the Forth has over
 London The largest modern town which
 has the most central position in British Isles
 50 Reasons for the substitution of London
 and Dublin for Winchester and Tars as
 capitals Advantage of Fdusburgh as a
 modern capital and that feature of its position
 which was an advantage in ancient times but
 is now worthless
 - 51 The similarities in the position of the following pairs of towns—Scone and Forth, Westminster and London, Worcester and Shrewsbury, Clomacous and Athlone
 - Shrewsbury, Clonmacous and Athlone
 52. Reasons for Iona being an excellent
 position for a mission station
 - 53 Fisheries and their influence on the development of England Fishing rights and complications in Anglo I rench relations

LIST OF BOOKS



^{*} Books marked with an asterisk are specially recommended.

*4. Man in Many Lands.

*5. Man and His Work

Mesars, A. & C. Black. 1s. 6d. each.

6. Historical Geography of the British Isles.

*7. The Relations of Geography and History:

H.B. George; Oxford University Press.

 Uistorical Geography of the British Empire: H. B. George; Mesars. Methuen & Co. 3s. 6d.

9. Geographical Influences in American History: A. P. Brigham; Meesrs. Ginn & Co. 6s.

Influence of Geographic Environment:
 Miss E. C. Semple. Rs. 15-12-0.

 Historical Geography on a Regional

Basis—The Br. Isles: E. W. Dann; Messrs. J. M. Dent & Co.

12. Jenk's History of Politics-Temple
Primers.

 Payne's History of the New World, called America, Rs. 24. Oxford University Press.

К. S. Рагавеаннан,

SOME EDUCATIONAL IDEALS AND METHODS.

A SPIRIT of reform is in the sir. Whether his be true or not that India is generally passing through a transition istage, it is certainly true that the Madrus Educational system is. On the one head, the University is pating the new regulations into force and auxiously watching the results. They hope that the regulations will justify themselves in

the event. But I must, of course, except from this category those gloomy prophets who foresee nothing but disaster from the existing educational arrangements in this province. On the other hand, the Government are busy about the re-organization of their schools and colleges and the working of the School-Leaving Certificate Scheme. Fortunately for this Government, even the opponents of this scheme in the Senate of the Calcutta University grant that it has been a success in Madras. But that is by the way. Again, the non-official educational reformers are generally waging war against every existing arrangement and advocating changes in the system which will approximate it to the system of their days-of course the best one that can be imagined. But I shall be unfair to them if I do not add that they also advocate reforms which do not have even the sanction of experience.

It were a vsin attempt to examine all their patent remedies for the ills which Madras student flesh is heir to. But I propose to examine a few of them and show that those remedies are more often than not the expresion of individual idiosynorasion and not gentine educational reforms which will benefit either the country or the students.

The first charge that is brought against the present system is that the education provided is purely literary and that it does not take account of the industrial and commercial needs of the country. Pat in this form, the charge is probably unanswerable. But they go further and any that there is too much of literary education. Now this must mean either that in the country too many people are being given this sort of literary education or that those students, whatever their numbers be, who do receive education

Books marked with an asterisk are specially recommended.

under the ausnices of the University, are given only a literary education Considering the comparatively small number of students at school or college in this country, the former interpretation is evidently untenable If it then means that our students, such as they are, do not receive industrial or commercial education. I contend that this argument fails to take note of the history, the traditions, and the purpose of the few existing Universities in India they are fulfilling the very legitimate purpose, outlined long ago by Lord Macaulay of giving us aducation and culture on the lines of the older Universities in England And it cannot be seriously disputed that they have discharged that duty nobly by us, though we may quarrel with the means employed now and then or may be impatient with the slow rate of progress If these Universities are to go on discharging their duties, and mproving their methods, so that they may soon become teaching and residential Universities in a more complete sense than they are now, they will have enough to do without being asked to provide for the industrial and commercial education of the vonth of the land

Nor does this argument take stock of the class of students who enter the portals of the University now Most of them, it will be readily conceded, are not fit, nor are they anxious to receive any bat literary education It will be disastrous if these students who are mostly drawn from classes who have never known the A B C, of commerce or industry are forced to study them either compulsorily or even optionally. But I do crant that some provision qualit

But I do grant that some provision ought to be made for giving industrial and commercial education to our young men. But if it is to be, the agencies are not the existing Universities Nor, I venture to express the opinion, any Directrities I hold—it may be put down to a feeling of intellectual aristocracy—that University distinctions ought to be reserved only for men of letters

Again, as I have said in another place, every unit of energy available in this country ought to be used for the spread of Western ideas and culture which can be done only through the wide study of Western literatures. Almost the only agencies which now ensure the realisation of this very desirable object are the existing Universities and it would be a disastrous day for Indian't they are burdened with other tasks than this

Another charge which is brought and very legitimately brought against the recent innovations in our educational arrangements is that it tends to too much and to too early specialisation To understand this charge properly, a brief ontline must be given of the state of things which immediately preceded the new regulations A student, while at school, must have studied English a classical or a vernacular language, Mathematics including Arithmetic, Algebra, and Geometry. Bistory of India, Bistory of England. Geography and Elementary Science and must have got in these subjects a good percentage of marks before he matriculated at the Univerarty Again he had to study English, a classical or a vernacular language, Mathematics including Algebra, Geometry, and Trigonometry, History of Greece, History of Rome and Physiology or Physiography for the First in-Arts examination And for the B.A degree examination, the student studied English and a vernacular or a classical language compulsorily, and one of the five optional branches A glance at this syllabus will convince anybody that the degree holders of the University under the old regulations must possess some knowledge of various subjects. They know something of mathematics which counters, according to many educational experts, accurate thinking, something of the bistory of their own rountry—asted of great value,—and of Ancient Greece and Rome and of nighty England, asmething of Physiolegy, something of their resurceins or of a classical language, and I am not at all willing to concede for one moment that their knowledge of English Language and literature is in any way interior to that of the graduates of the University and the bree regulations.

I am not advocating a return to the old state of things for I hold that it is both unnecessary and undesirable-unnecessary because the object I have in view can be attained by other means and underirable because the old system had some very obvious defects whose recurrence I certainly do not wish. But I do hold that some improvement ought to be made on the present system. Otherwise, our students will grow up in water-tight compartments and will lack that general knowledge of things which any man of true calture must be auxious to possess. What can you expect of a student who pever studies a book on history-either of his country or others'-at school or at College, but who may be a Master of Arts of the University? I will explain how this happens: A boy when he gets into the Fourth Form has to choose the studies of his life. That were an evil by itself, but its consequences are accentuated by the fact that the syllabus is so arranged that. when the student chooses any subject as he has to do, there is no provision made for giving him that general culture which will, in some measure, counteract the evil effects

of this too evely specialisation. For the only subjects he has to study compulsorily are English, Vernacular Composition, and Elementary Mathematics and his optional group-Let us assume that the stadent chooses a Mathematics Group. Then he has to study only these subjects. Of course, he has also to study the subjects under Group B, which comprise Indian History, Geography, Elementary Science, Drawing and Gymnastics. But-and this is important-the student is not examined in these subjects at the public examination. The consequence of this provision is that sufficient attention is not paid at school to these subjects. I make this statement very deliberately after some expenence of how things are done at various schools. Honce it happens that the sundent may practically matriculate, i.e., be admitted into the Intermediate class, without ever baving learnt anything seriously of the Listory or the geography of his own country or of lingland or of ordinary scientific facts which any curious student must be auxious to learn. When in the Intermediate class, the student is no better, is perhaps worse. He studies English, Vernacular Composition, or Sanskrit translation, and one of the optional groups. Let us assume sgain that our student chooses the Mathematics group. Then the same phenomenon will be repeated. So that the student will enter on his studies for the B.A. or the M.A. Degree examination of the University without any historical or scientific knowledge-s state of things which could never have happened under the old regulations.

Thus we shall soon have graduates of the University holding the highest distinctions it can offer, not knowing where Delhi, the Capital of India is, or what part it played in the history of India, gravely doubting whether Harshavardhana is the name of a king or of a province, whether Aurangazeb reigned before or after Alber, whether Clive was an English or a French general, or why the great Proclamation of 1858, if ever they hear about it, is called Magna Carts, and not by a more elegant name Nor will they know even such elementary facts as what water is composed of or what the difference between a mechanical mixture and a chemical compound is They will never know the causes of lightning and thunder and perforce attribute them to the wrath of the gods and they will seriously doubt whether the earth, solid as it is, moves round its axle and round the sun They will also not know where the liver is whether in the head or in the abdomen, whether there are two lungs and if so where they are And if you talk of intestines, they will absolutely be at sea I do not deny that they may know some of these facts , but, if they do, they will not owe it to the training which they receive at school or at college

I grant that, theoretically, there is provision in the chool curriculum for the teaching of Indian History, Geography and Elementary Science under Group B But since these subjects are not prescribed for the public examination, enflicient attention is not pass to them at all in many aschool if this state of things is to be rectified at all, a more cligible position could be given to these subjects in the school curriculum

There is one currous feature of the new regulations which, I think, is worth while pointing out I refer to the position of Indian History in the curricula of studies. It will be readily conceded on all hands that the study of the history of our country must

form an integral part of the education of our students And yet what do we see? In the school enericulum, as has been pointed out above, Indian History is made to rub shoulders with Drawing and Gymnastics under the neglected Group B Further, there is absolutely no provision made for the study at school of Indian History as an optional group Hence there is no opportunity for a student, however desirons he may be of studying Indian History as a special subject, to do so Again in the Intermediate classes there is no room for the study of Indian History for it finds no place even in the optional groups. Again while fortunately for the ordinary BA Degree examination, Indian History is not thrown overboard. Indian History is only an optional anbiect in the correculum of studies for the Honoura BA Degree examination Of course no one subject is compulsory in the History group for that examination. But that is no argument. Sprely we cannot contemplate with equanimity the phenomenon of the graduates of our University going out with their M A Degrees in History and never having seriously studied Indian History at school or at college This was not possible under the much abused old regulations Nor is it one to be tolerated any longer

But the 1s only one of the evils of this crass for specialisation of Specialisation of the every valuable, especially in India where the atmosphere of true culture is yet to be created But each has its own place and nothing but disaster will result if this hobby of specialisation is ridden to death as apparently it, is, under the new regulations I contend that, while at school, a boy ought to receive general culture in a farly large number of subjects, so that his outlook may

be widened and he may have the very necessary, though cheaply ridicaled, equipment of knowing something of overything. It will be time enough when he goes to college to choose his subjects. This is advocated also because the boy at school cannot really choose well at such an early age.

Another charge which is brought against the present system is that, whether under the old or the new regulations, it does not give any religious education. A distinguished citizen of Madras said the other day that he must be a hardened man who came out of our schools and colleges with any spark of religion left in him. It may be so but the question is whether the ideal of true education is to make our students religious while as the color of at college.

The only rational ground on which the teaching of religion directly by means of lessons can be advocated is that thereby our students will be trained to lead honest and pure lives. We are all very anxious that our students should lead such lives. But I am very doubtful about the wisdom or the efficacy of the means suggested. It is much more likely that a student will be trained in the practice of moral virtues by becoming acquainted with heroic examples of men and women who, under trial and temptation, have never swerved from the path of virtue and honour. I will go further and say that they can profit only by the examples of men, like themselves, having the same failings and weaknesses, who were able to transcend them with efforts which, however difficult, are only human. Can the same be said of demigods and god; incarnate who are always able to press other than human agencies into service? Our students may read of them with awe but they will always put them on a separate

pedestal, when it comes to action. I say it with great regret, because I am a Hinds and proud to be one, but the interests of of trath demand that it must be said that most of our Rishis and some of our gods are not paragons of vittee.

It is again urged that our students must get to know something of their religion while at school or at college. It may be expedient, but certainly the place to learn it is not the school or the college. But I question whether it is even expedient, for our students are of too tender an age for them to judge correctly on abstruce questions of religion and philosophy. And it will be time enough for them to study and judge of these questions when they enter life. If it is feared that, unless they are introduced to religion early, they will not care for it afterwards, then something is wrong somewhere else and not with the students. The analogy of politics will illustrate my point. It is fairly evident that most, if not all, of our students will have to take some share in the politics of the country (I use this phrase in a very general sense). And yet we know the scrapulous care with which the study or the discussion of politics is kept away from students. And the ground alleged is that car students are too immature to judge of political questions. If we are to be logical, a portion of this argument applies to religious questions also.

It is regrettable that, in this craze for religious instruction, no attempt is being made to attend to other more important subjects concerning the formation and development of the character of our young men which is after all the best equipment they can have in life. To secure' this, it is necessary we must get as teachers of our yours

meer—men who by their lives will show what it as to live bonestly, honourably and usefully One such good teacher will do more to the improvement of the character of our students than hours of tessons on any religious textbook. And if we all spoke the truth, we must say that a particular teacher or pressor has had more to do with our sides and ideals than any other influence. After all, young men all over the world are heroworshippers and if only they are brught into contact with good and high souled men, they can what for no better fortune.

There is one other subject on which I should like to say a word here. No attention is paid to the culture of the heart as such in our schools or colleges. It must be conceded that our young men are very impulsive and that their hearts are quick to respond Youth is the period of generous enthusiasms. And we are latting a great source of national cerichment untapped when we allow our students to go into the world and merge in the crowd without having made any attempt to bring them into sympathy with hopes and fears they do not heed. I attach much importance to this culture of the heart. But I cannot elaborate it here.

I cannot elaborate it tore
Finally, there is one very strong argument
against introducing direct religious instruction into our schools and colleges Oucountry is perhaps the greatest museum of
religious curjustics in the world. And if we
are to cater to the nucled of students belonging
to different religious communities, there will
have to be a considerable multiplication of
agency. Besides that, I am afraid it may
apont the true educational atmosphere of an
avowedly secular school or college. I
expect from this category the proposed
Hundas and Massalman Universities.

welcome them because I am sadly consecuent that my country wants more Universities which will not come except through these agencies. Again they are arowedly confined to special communities and there is no room for conflict in them. There is an element of danger there too, but I look confidently to the broadening influence of true culture to smooth the asperities of too much religious instruction.

I have now examined three fairly typical charges against the new regulations of the And I venture to think that University the conclusion is that, though they stand in need of improvement in details on the whole they point in the right direction. After all they have not had a sufficiently long lease of life for us to judge fairly of their results And, in criticising them or suggesting improvements therein, we ought to be sure in our minds that those suggestions or criticisms are based on certain ideals we have of oducation There has been so much of drifting in this country in various directions that it is time we regulate our activities by certain accepted standards

And I venture to express the hope that not many will dispute the soundness of the following ideals which ought to govern our immediate activities in educational matters—

- (1) The education which our existing Universities must go on giving must be purely
- Universities must go on giving must be purely literary
 (2) Industrial and Commercial education
- must be in the charge of other educational agencies
- (3) Specialisation in studies ought not to begin too early

(4) Education, in its higher stages, must be specialised.

- (5) Education, so far as direct teaching is concerned, must be purely secular.
- (6) The development of the character of and the culture of the hearts of our students must be attended to.

After all these are only means to attain the end which we all have in view, i.e. to see that the youth of the land is able to hold his own as against youths of other civilized countries. And this very desirable object can be achieved if all our educationist would bear in mind the words of His Imperial Majesty in reply to the address of the Senate of the Calcutta University, viz., that we should send out of our schools and colleges "houses, mustly, and neefal citizens."

S, Satyamurti.

THE TEACHER.

IT is a common belief that teachers lead a slothful and by no means a happy life. I am sometimes inclined to consider that even such a belief is not without its reasons, seeing how most of us have chosen this profession but as the ultimate one-having got our projects defeated in trying to secure places elsewhere. We either think that it is as easy to be a school-master as to lie down in our beds and go to sleep, or compared with that of others, the pay of a teacher is poor, not proportionate to the difficulty undergone, In certain instances, we are of sincere opinion that no regard is paid to us by the public, since they think we are harmless and we think it is not fashion to be called what we are, viz., teachers. The cause of this negligence on the part of the public seems to me to be this : l'eople at large respect, nav. , worship wealth and power. A beggar with infinite musical attainments is reviled, is

corsed for 'his boarse noise.' A rich man with no jota of taste for music may bawl out, may atter incoherent sounds with the result "see, how exquisitely he sings! So and so, (the so and so may be one of the best musicians for aught we know) is nothing to him." And power, yes, who doesn't prostrate before at? Who doesn't sacrifice his everything for it? But the teacher hasn't the power to condemn the actions of the public directed against him. He is, if possible, more docile than the boys under him; so that whatever is framed or passed in a wav detrimental to his interests and the interests of his boys remains uncontradicted and is accepted as certain. In short, the profession suffers from a state of paralysis caused by the blows of public opinion and misunderstood self-regard "A teacher is born, not made." A vast

gulf there is between a man who becomes a teacher because he cannot help it and another whose natural inclinations lead him on to this and in spite of deadly disapprobations of his friends and others, whose words he is forced to respect and whose words fit him for anything but a teacher. In the days when the patural teacher attends school as a boy, his desire is in a state of infancy and with his own growth grows the inborn, the keen love for the post : no matter what comes between, no matter who sets the trap, his aims still lead him to progress on and ou, nothing daunted in resolution till he reaches the goal, the long wished-for goal of a teacher. Some divinity there is about this and this divinity the born teacher realises within himself and feels pleasure in that realisation. A sort of godly purity is infused into his soul and he at times fancies himself to be in

that elysium of happiness which induces him

more and more to increase his enviable glad-

ness. The work of many in this direction proves fatile, more often fails, because they do things for money, because they do things for compulsion, because they have no distincted motive in the training of young minds. A superficial survey of the preceptors of olden days shows us how they taught not for money, how they taught not for others' esteem, but for the purely unselfish motive of training up the young for the training's own dear sake, readily, millingly

The responsibilities imposed poor a master are perhaps heavy. In the most accented sonse of the word, a parent is responsible for the branging up of his child, for feeding him and for clothing him till the child becomes a big boy Thereafter the bay or the father cannot be much blamed for each other's mus understanding The case is different with a boy and his teacher The boy thrives well or fares ill in life according as the education he has received from his master is solid and substantial or useless and not worth the sum expended over In life the recommendation of a man must be, not a bundle of letters got a bit from this official, another bit from a superior, a third bit from a still superior and so on, but the recommendation of his own worth which must speak for him This, we see in experience, is with very few men. The child's character is formed and modelled at school and the first impress on the child gets there is capable of development as his brains are at that stage easily susceptible to outward influences The teacher is to be held therefore, responsible for the first good impression of the boys A true teacher is a blessing to humanity masmuch as thousands take golden lessons from him; whereas a parent but instructs his own two or three and that too

imperfectly. The root of the tree is to absorb the food materials and distribute them to its several branches. If the root is bad and the food materials worse, we need not doubt that the tree will rot to its core and the branches will not grow but wither away. On the other hand, if the root is good and the materials tasted better, then the tree will be one of the most flourishing once and the branches will flower, mile and look cheerful. Similar to this is the position of a teacher. If he gives had instruction, the child is spoiled. If good, the child is a hillent success.

In all walks of life there is this fact to be considered, that there is a relation between the door of a thing and the thing done, and the anality of the agent to a great extent determines the character and the effects of the work turned out. In the work a schoolmaster has to do, nothing influences character like character. It is no use sitting idle and preaching industry, coming late and preaching punctuality, being vicious and preaching virtue 'An ounce of practice is worth a ton of theory' "And all teachers will do well to bear in mind that there are no critics so keen and sharp eyed, no assessors of character so mercilessly just and no observers of the ways of others so undeceivable as children. No man can be so astate a humbug as to hoodwark boys into a wrong belief and hence no bad man can be a good teacher" He should teach things not so much by what he says and does as by what be is

The teacher, immediatly he gets convinced that he is personally fit for undertaking it, must throw his beart and soal and might into the service, and sympathy with the boys' psychological working is perhaps one of his

best qualifications. He must feel with the boys a pleasure when their tender brains try to express the latent powers within. Nothing is more delightful than this to a man who likes the profession; nothing more delightful to him than to see the instruction imparted by him received almost mysteriously.

It is obvious that any suptare between two masters of whatever rack would interfere seriously with efficient work. Without harmony in the staff, school work must, of a necessity, suffer. Even boys may catch the infection and engage in far more serious quarrels in defence of masters who happen to take their classes.

And a scholar is to be trained so that his dormant resources, whatever they be, in-tellectual, moral or scientific, shall be roused, and kindled to Lis best advantage, so that his selfshaness which may be called the spring of all vices is lessened; so that his abilities, his love of persoverance and truth be the examples for emulation and so that like Longellow be may asy.

And departing leave behind us

Foot prints in the sands of time. The schoolmaster's position is a very trying one indeed. Very often boys are prone to be mischievous, insolent and revolting. In such cases it is not good to bave sullen or irritable tempers. "Boys will be boys" our Principal used to remark "and it is in their nature to be mischievous." For, detect their crimes in a thousand ways, they have one more way of committing them. A charitable construction must be put upon their motives of wrong-doing and kindness must play its part much oftener than severity. The moral standard of the boys is only so little formed that we should not with justice decide any appoyance done to us or the school, as a

crime. And when it comes to whether we are to put a boy to actual physical pain or to deprive him of some privilege or pleasure, it is only when the latter positively fails that we should have recourse to the former. In most cases, the crimes are not of a nature to deserve corporal punishment. It is quite possible and desirable that a pedagogue has the book without the birch and is a pedagogue still. Under any circumstances we shouldn't punish boys with a glow of satisfaction on our faces. If we do, the boys may resent having us for masters and cherish some stern feeling of animosity towards us which may lead to disagreeable consequences. If they are punished constantly, a mechanical obedience, that savours of no affection within, will be the result. The value of punishment is lost upon them and they take it as an every day affair. The relation between the teacher and taught becomes strained; and then-it becomes the case of a buffalo and bull yoked to the same plough, the one pulling towards the sun, the other towards the shade. Such must be the nature of the punishment as boys may realise that atonement is possible and that the memory of the one mischievous act may be lost sight of in doing righteons ones hereafter. Common seuse dictates terms to us which many of us are fond of superseding-Even legal justice, they say, is tempered with

generosity.

Ananta Raman, a boy, used to come to school, two miles from his house, daily late. The master had established that the boy should place down his books and get up on the bench almost automatically. One day, by some strange fortune, Ananta Raman had his meals earlier and came running to school, his heart fast beating. And just when he was entering the school-gate, the bell rang and

he went into the class two minutes too late He placed down his books and stood in his place

Mester Ananta Rama

Boy Yes, sir.

Master Im-(signifying, 'on the bench as usual')

Boy Oh, sir, not to day please I am dogtired

Master Fool! You defy me? Up.

Boy No. sir. I cannot do it to day Immediately the master writes a chit to the headmaster telling him that Ananta Raman comes late and refuses to stand on the beach The headmaster comes with the cane and makes his enquiry. If he sides with the master, there is atter injustice done to the how If with the boy, the master puts on a long face. He is now in a predicament. A. olever and kind master would have said "Ananta Raman, I am sorry for you You have managed to come earlier this day and if you try somewhat more you can come in time This day I am pleased to excuse you" Here 18 an actual case. Let my brethren comment upon it as they choose

In conclusion, I may add, gramble as much we may to the manager of an institution for the poorness of the pay, let not the displeasare caused herein enter in any way into the regions of efficient work, and the tot physical weaknesses and the several worries which a school master is pot to as any other in life interfere with the smooth and caward progress of the children in the path of right knowledge and right education "Such worries," any sono learned, capable and greatly experienced headmaster, "are to be borne as lightly as the modern apportenances of a schoolmaster, for instance,

a jacket and a turban" What a fund of

A conscientions discharge of duty coupled with an earnest enthousem in the sacred office of forming and training young minds, and a sincere wish and prayer for the welfare of children entreated to our charge must make us true teachers worthy the name

T S RATAGOPALAN

A COURSE OF STUDY IN ENGLISH HISTORY FOR THE HIGH SCHOOL CLASSES

(Continued from page 405)

REFORL proceeding to complete the scheme. a part of which I set forth in the last issue of this journal, I take this opportunity of making my ground clear on a certain point, in the method of teaching History, which, I very much doubt to think, is likely to be misunderstood by some of my readers Whatever may be said of the virtues of any method in the teaching of any subject, it needs no mention that, even that method done to excess is, besides defeating its own purpose, also at times mischievous. In a tentative scheme of studies covering the Anglo Saxon and the Norman periods, prepared by me. which appeared in this journal last month, though the scheme itself was drawn to suit the topical method of teaching in History. every attempt was made not to make that method entirely exclusive in its character and application It may be remembered that, aide by side, with the topics suggested there were also names of persons and localities, as Dunstan, Edgar, Alfred and Hastings, etc. shown in the scheme, without which important names, any scheme, prepared to suit even the best method, is bound to be defective.

It is hoped that it will not be out of place to examine in this connection the merits of a method, of which so much has been said in these columns and with which the present educational atmosphere is surcharged. In the first place, the topical method of teaching History creates interest and a spirit of investigation. As this end is achieved, the causal relationship in History is brought out and the subject can thus be scientifically treated. Failure to give a scientific turn to the treatment of the subject entails a culoable and a baneful neglect of one of the most important uses of a proper study of History, namely, its disciplinary value. Thus want of adherence to a good method is as bad as, if not worse than, following no method at all and only tends to set at nought the disciplinary value of it, besides curbing the analytical, the thinking and the discriminative faculties of stadents.

Secondly, the topical method tends to familiaries the pupils with the proper use of books and libraries, as the information required nuder a certain topic has to be called from several sources and from the several chapters of a book. The one unconscious but yet aure result of all this is that every time the students exercise their thinking faculity, there is a vigorous check placed on forming hasty opinions of historical facts and periorance. The beneficial results of this method can be multiplied to any extent and it acts as a wholesome or a baseful weapon according to the way in which it is understood and made use of. In fine it may be said that the topical method is to History what the regional method is to Geography and an exclusive use of it would be preposterous in the Elementary schools, abund in the Secondary and a mintake in the College.

I may, in passing, suggest with advantage that, of all the recent publications in English Ristory that accord a scientific treatment to the subject, Arthur D. Innes' arrangement and treatment are of the best.

Without taking any more of your valuable time and space, I shall continue from where I left last time and draw a scheme to cover at present the Plantaganet, the Yorkist, the Lancastrian and the Tudor periods.

An Outline Scheme of Studies in English Ristory on the Plantaganet, the Yorkist, the Lancastrian and the Tudor periods.

PERIODS Torics HEADINGS. PRACTICAL WORK. TO BE Devoten I. The Early Angevine. 1154-1272
(i) Henry II's position at his accession-England, an appendage of a continental Empire-His reign marked by A map of Henry II's continental possessions. Period of Period of struggle Period of triumph with Church and at home and of Barons. administrative reforms
Foreign policy of the reign—Last great Feudal rising—abolition of Feudalism -Jury system.

Topics Headings	Periods to be Divoted	Practical Work
2 The Third Crusade—Bichard Is absence from England helping constitutional progress—The foreign policy of the reign.	2	
3 The loss of Normandy its causes and effects—The Barons triumph—The rising against John not Baronial but National—The great charter its results and importance	3	
4 The weak rule of Henry III.—The causes of Barons' hostility ending in a Baronsal scheme of Government.—The Oligarchio nature of it.—The Baron's war.—The story of Simon De Montfors and his legacy to England	3	
5 Monarchy under Fdward I , His reforms—His attempts at consolidation—The Beginning of Parlisement, is wars—The troubles in Scotland—The battle of Bannockburn	3	Genelogy to shorthe Scottish succession question Plan of the battle of Bantickburn
6 The Social and Pronomic changes of the time	2	or manufectonia
II The Later Plantaganets 7 The beginning of the English hostility to France doe to personal as well as to national discontent—Feward III a part in the Hundred Sears War—His relations with Farlament—Creey and its hajorned laporations	8	Genealogy to about Edward III's claim to the French throne Dry sion of France after the peace of Bretigny Planof the battle of Creey
8 Richard II s autocracy and its results The beginnings of the Reformation—Wyel filte movement	2	•
9 England—a constitutional monarchy under Henry IV. The continua ion of the Hundred Years War	3	Plan of the battle
10. The wars of the Roses and their effects-The State of the Baronage	3	Map of Fogland showing the various battle fields
II The footseenth century, a century of social religious and political confliction. Racof Anti Papal and towards towards and crist guided by Chille movement occurrenced and crist guided by Chille movement occurrenced constitutionalism.	3	
III The Tuder Period 12. The popular despotism of the Tuders—The beginning of modern times. Heary Vils masterly foreign policy.	2	
13 The Reformation—its origin and results—contrast with Continental Reformation—its progress during the reigns of Henry VIII, and his children—Lardnak Wolesy?	3	
14. The Ca bolic reaction under Ma-y-Loss of Cala s	2	
15. Relation between England and Spain under El sabeth-The } Spanish Armada-Fogland the mistress of the Seas	3	
16 Religion and civil sation of the period	2	
17 The story of England a intellectual and marrisme awaken ng	3	

In the above scheme under the Tudor period care has been taken to show how during that period, religion for the first time prevails over politics.

As usual, I have appended a line of time covering the important historical events coming under the periods for which the scheme has been prepared. The line is divided into 9 parts of 50 years each, making up a period of 450 years from Henry II to Elizabeth.



S. G. SCREAMANIAN.

EDUCATION IN THE MAGAZINES. (INDIAN)

Poetry of the last 25 years.

Under the apopices of the Presidency College Literary Society, a lecture on " Postry of the lest 25 years" was delivered recently in the Collect Hall by Mr. C. P. Ramasawmi Iyer, with the lion'ble Mr. Justice Tyabjee in the chair.

The lecturer delivered a short but interesting fecture on the subject of poetry and said that they had yet to learn a great deal of the literature of the West. They had nothered the days when the literature of their country could proceed on old lines He therefore beld that they should assimilate in their own literature all the elements of the literature of the West in order to make their own literature living. The literature of the last twenty-five years in England in the region of poetry was all miscellaneous literature. Up to the death of Tenopson, there had been a main carrent of literature, and they had great masters like Tennyson, Browning, Matthew Arneld and the rest. After the death of Tennyson there was a set back in the current of literature and there were various developments. The method of Swinburne was facile and was based on ward forme and athterations, his followers merely copying his mannerisms and alliterations. Anexamination of Tennyson's works showed that in them there was an altempt to preach and be thought that his mission was to preach and to import into literature the discoveries of new science and of new psychology. An artificial age which had coused to be satisfied with a simple straightforward negration had come into existence and for appression of their ideas they had resort to new fangled expressions. Austin Dobson represented the back water of literature. The next school of posts was represented by William Watson who was what might be called a reflective poet and his was criticism and not creative poetry. It was what might be called glorified prose. Another class of poets was represented by Francis Thompson whose works were characteris ed by pessimism and revolt There were different schools of English poetry and different modes in which they wanted to express themselves, but not one of them had established a new postio creed or a new poetic language. They were all trying to create modes of expression and that was the state of poetry till fifteen years ago. The question was whether there had been a change afterwards. There had always been in England certain persons who wrote in the old lyrical

strain Robert Bridges, the present noet laureata could not be said to belong to any particular class of poets and he had written in a manner which was purely lyric. The motive of poetry of the last few years seemed to be that man ought not to look so much to outward as mward and that problems of existence ought to be solved by some strengous psychology That was one of the suppos of the recent scientific development in the West They were now in a transitional and some what unsettled mood and did not decide what the function of true poetry was But signs were not wanting to show that the result would be in favour of resuscitation of old lyrical impulse, and most recent booms were merely lyrical in the ontlook

The Teaching Grant.

The first meeting of the Assistant Masters' Association, Trichinopoly, for the year 1913-14 was recently held in the Hindu Secondary School under the presidency of Mr. Venkatasubrahmania Iyer, B A, L T. in the chair.

Mr M. M Balakrishna Iver, Assistant Master, Hindu Secondary School, was called upon to speak on The Teaching Grant and in the course of a short address, he traced the history of the Grants in Aid system and outlined his proposals for their modification and extension in the future The liberal policy adopted by Government and the increasing attention that is paid to the status. pay and prospects of the teacher, was the only apology for a detailed discussion of this question Government matituted the Teaching Grant system for a triennium from June 1912, and under this system lump sums were awarded to institutions for the benefit of Masters and, though there has been evidence of complaints and dissatisfaction here and there, yet it must be taken that the system on the whole has worked fairly well How to improve it was the question Instead of small sums Government should allot larger amounts which they can now do, as they can now give the improvement of the teachers' salaties their first considerations schools having been sufficiently equipped by successive special grants and as sofficient same can be set apart from Provincial and Imperial sources Secondly, the Incomplete Secondary Schools, which have been left out of consideration last we've should be admi ted to the benefit of this system of salary grant as these schools need attention and en conregement, se much as, if not more than, the other complete Secondary Schoole Thirdly, all schools should be brought within the pale of this system without the consideration of surplus or deficit. There are mentations which are wellconducted and efficient and which have yearly serniases and yet the scale of selary to these metitations was no better than the one obtaining in others Teachers in the employ thereof should not be denied the small encouragement Government do magnanimously give in other gnarters. Proposals have been submitted by the Provincial Conference and one also made time after time by some of our non-official members of the Legislative Conneil and by leading educationists to alter the provisions in the Grant in Aid Code, by which Government is asked to bear the whole of the nett cost to the management This system will not amply meet the requirements of the situation Teachers employed in a large number of institutions will not be benefited and further, if institutions become self supporting Government will have to withdraw from the field of Secondary Education in the matter of aid Government can fix the minimum salary of teachers in all grades and can make the teaching grant a fixed and a regular contribution which can be calculated either on the salary, service, or the strength of the matitution. No school need be omitted on financial considerations and Government should become a co-partner with the Manager in the matter of payment to the teacher wherever be may be employed such system of Salary Grant if cularged and extended as aforesaid, will benefit all teachers in all schools and this system of improving the pay and prospects of the teacher so dear to Government and Managers alike will be quite in keeping with the demand made for a cognition of teachers in sided institutions as public servants The Teaching-Grant system promulgated and adopted, tentatively, by Government, requires to he made a permanent charge on the revenues of the State, it should be the first charge in future. at should be liberalised with greater allotments. at should be made universal in its application prespective of schools and their finance, and above all it should be administered with greater supervision and control to ensure its proper utilisation and distribution. The adoption of a system I ke this will give wider and greater entisfaction than the proposed modifications of the Grant in Aid Code

Famous Characters and their Creators-

Under the ansy ces of the Pechayappa's College Literary Society, Professor & B. Rirmanathan delivered an interesting lecture recently at the College Hall, on 'S me Fancus Characters and five Creators' with Mr. S J Camford of the Christian College, in the chair.

The lecturer began by saving that the College Literary Societies might be supposed to be an extension of the College work. There was this difference between the College and the High School work : there was greater sense of freedom as well as greater sense of responsibility on the part of students in College work. If Literary Society work should be made to be a mere extension of College work, that sense of freedom and that sense of responsibility would be diminished and so the Society should take care that it did not get emerged in College work. In the choice of subjects there must be occasional topics that might not be quite acceptable to College lecturers. But all the same such topics might have to be taken up. With experience the Society must be able to hit at a proper kind of topics and subjects. Then by occasionally inviting outsiders the Society had the advantage of people giving discourses to them, people who have had experience of life and people who would therefore impart into Society the larger air of public life. In this special case the lecturer was not so much of an outsider and possibly also the subject was not so much an outside subject. But he would make it as little of the College lecture as he would.

Beginning with the sattest writer he would speak of Chancer, Chancer was not each additional speak of Chancer, Chancer was not each office to woo or three characters in Chancer. There is Keight, his favourite character. He distinguished binself in the European campaigne of the day, he was a model keight, and he was supposed to absence the contract of the contract

The lecturer then dwelt upon Chancer having been a man of affairs and he distinguished himself in various capacities and that his knowledge of affairs was visible in his writings.

Proceeding to Spencer, the lecturer said that he was a man conversant with affairs. He was Secretary to Lord Grey.

He would refer particularly to the 5th canto of the Fairy Queen, where they had the idealised picture of this Lord Grey. He was no doubt unsuccessful in pacifying ireland and to arrange the Irish affairs. The portrait was much more

individualised than Spencer's characters were generally.

Then the next writer must be Shakespears and in Shakespears be would mention Henry Y. He wou't repeat what he might have been saying in the College classes, but he would only refet in the business capacity of Shakespears and his corverant with his, and also the fact that Heart was pre-eminently a man of action, and a man of resolute will. Proceeding next to Million, the lecturer said, he would supplicable commell, but was now who took active interest in the affairs of the Commonwealth and it was this Million who was the author of Paradize Lost.

There was not very much to say in this connection with regard to Satan and Adam and though even here they might adopt the Fresch critical view, that Satan and his fellow derlis represented a Farliamentary opposition and Adam was perhaps the Milton binness? idealized Justice of Milton, that would be said additionable of the said of the said

The similarities between Milton and Suspoon were many and striking. Both lived dedicated lives and both full on criti days latterly and they susficed very much for the causes they worked for, and altimately these causes trimphed and they showed thomsleves God's chosen instruments for the well-buing of that country. Pechage is minor written of the times would be simplicity and the days of the country of the c

The lectures then referred to Wordsworth and participally to his poems on the Hoppy Berrie and then he dwell on the trace of Nelson's theractec that Wordsworth particularly admin-There was his devotion to knowledge, or the words of the state of the state of the case of life and to convert such platfel speriences into elements of moral growth. There was the simplicity of Nelson's character, and was the simplicity of Nelson's character, and devotion to duty. Then the next erries and Exclusives.

Our Economic Problem in India.

Mr. S. K. Neir of Travancore delivered an eloquent lecture in the American College Hall. Madura, on the 2nd inst, on "One Economic Problem in India," with Mr. W. M. Zambro, Principal of the American College, in the chair at fair gathering of gentlemes and

students was present. Mr. Nair in the course of his address said that there was no subject in India at the present time more important than the operation of 'our economic problem' The three fundamental things for the improve ment of the economic condition of a country were land, labour and capital. India had enough land and cheap labour. There was also sufficient capital in India provided it could be brought about in a co operative form. The colessal wealth of the nations of Germany, United States of America and Japan was entirely due to the co operation of the people Indians required that spirit of cooperation which would enable them to utilise the capital The best way of solving the economic problem was the best way of improving the land which meant the improvement of agriculture. The Indian soil was much exhausted and it should be enriched by the application of suitable manures After giving the advantages and util ity of the human and cattle, manure, he said that slight alteration in the implements of agriculture was necessary for the improvement of agriculture and pointed out the importance of the chimax plough which had been lately introduced. In the matter of prigation he said that new prigation pumps and oil engines might be introduced at the places where scarcity of water was keenly felt. They should also pay particular attention to the live stock which could be greatly improved by careful breeding, feeding and housing To effect all these improvements, money was required and if Agricultural Credit Banks were opened in large numbers and if money was lent to the ryots at cheap interest, he had no doubt that agriculture would greatly improve. The most important thing which if not attended to the economic problem could not be solved, was that the educated young men of the country should train themselves in the art of agriculture and take to themselves agriculture as an honourable occupation in life The lecturer then spoke upon the industries allied to agriculture such as Horticulture, Poultry farming He said that India could not be a manufacturing country for s long time to come and hence more and more progress in agriculture would be more and more improvement in the economic condition of the country. He next dwelt upon the weaving industry, sagar industry and cottage industries such as preservation of fruits, salting vegetables, bambon work. He concluded by exhorting the young men to train themselves in the various industries to start factories and thus practically improve the economic position of India.

What a School boy wants

Under the auspices of the Hinda High School Laterary Scorety, Triplicane, the mangural lecture was delivered recently by Mr. J. C. Rollo, Mr. A., Principalof the Pachuyappas College, on "White as School boy waste," in the Singarachari Hell, Triplicane, when Dewan Bahadar L. A. Govindaraghara Alyar presided

Mr J C Rollo delivered a very interesting lecture for about an hour. He said that every school boy had an instinct for creation. That was the instinct of an artist in any field-the poet, the musician and so on Every artist had a desire to make and leave something definite behind him Even so with a child who tried to create a building with his bricks The imagination of the child was working in the way of doing something himself A good deal of aspi ration and restlessness of boys was due to the r faculty for creation. How to use that latent faculty for creation? They should try to create for themselves everything that was said to them It was not anticient if they had the things said and done in their intellectual tablet should make every moral and precept their own by acting it So much for creating things that they were told.

Meat they must create themselver. No one site could even stempt to do that Man could almost make anything of himself. Self development and self creation was possible in the case of any himsen being. The mere acquaistion of facts was quate useless nules at the toe fifter a particular action. Geography was a definitely useful acceptance of the country in intellectual training, because they shed himself in the country of the country of the country of the country of printing and the country of printing and and had the wisdom criving effect upon their nature.

Then came self creation in a moral and emotional sense. Whenever they had a task to perform they should kindle themselves and rejotes in it. Such a thing would form self control, and would give efficiently and the self-control of the self-control

was an absolutely intellectual ageny. A ancessiful lawyer had to work abonizably bard, too hard for a man. It was so with other prefessions equally noble. He would some day lecture to them on the sporting spirit which was the grefelling of the system of the spirit of the early of the spirit of the spirit of the early the spirit of the spirit of the spirit each The Indian boys wars ready to respond to the teacher whom they liked. Their sympathy went out very quickly to any postic expression of hope ord resultation. They were ready for protein ord resultation. They were ready for protein facility and fart to last, boys should be taught to feel poetry.

Muslim Education in the Punjab.

His Honour the Lieutenant-Governor of the Panjab, in laying the foundation-tone of the Maynard Islamia Hotel, Agnew Hall and Renouf Labrary at Rawalpindi on 2nd August, made an interesting sueech in the course of which he said:

In your address the history of higher Mahomedian education has been briefly described. All that hear rightly pointed out that the development of Western denation among the hilkonedian community is does mainly to the efforts of the great Sir Syed Ahmed. No people as a critical time of their history over had a wiser leader than the Mahomedon community had in Sir Syed and no Government ever had a sounder or more trusted advise.

I am, therefore, particularly glad of your assurance that you regard the progress of the national interest of your community as inseparably linked with the permanence of British rule. That is the ideal which Sir Syed laid down and I am glad to see that the community is still pursuing his high ideals not only in politics and in religion, but also in education. Gentlemen, it has been aptly pointed out to-day that Sir Syed's plant has borne fruit indeed and good fruit, but the produce is still insufficient for the growing needs and the growing demands of your community. Hence the Mahomedan community of Rawalpindi which, though numerically great, is not richly endowed with worthy goods, has come for and to ask the assistance and the co-operation of Government. That assistance I can essure you, will be readily forthcoming. The policy of Government in these matters is a policy of equal opportunities to all the communities who are the subjects of Government. It is not the policy of Government to favour one community at the expense of another. I am sure your community

does not desire any special favours at the expense of others, but you desire and you are entitled to receive consideration according to your circumstances.

The attitude of Government towards the varione communities is rather like the treatment which a wise father extends to his children. A father may have many sons. One of them may be forward and well developed, quick at his books and may therefore require no special treatment and he able to look after himself. Another son may be younger or may have started his education late or may be a little slow at his books. The wise father looking to the interests of both of them says that the latter requires a little special assistance. Therefore he will arrange for a tutor to give him teaching out of school hours and to help him over his difficulties so that he may in time catch up his elder brother. That is not a policy of favouritism. It is a policy of wise discrimination based on the respective needs of the different members of the same family. I do not think any one of you will dispute the description of the various communities in India being roembers of one and the same family of which Government is the head. Government is, therefore, quite ready to co-operate with the leader of your community in placing your education institutions on a sounder and better basis. T. policy has been very clearly enunciated in the recent circular to which you have referred the Magna Charta of Mahomedan education. that circular the objects and aims of Governm have been very clearly defined and the responsible ities of the Mahomedan community have all been very clearly stated. It is for you to ris to those responsibilities, and if you do so, you may rest sesured that Government will perform its share. I have the circular before me and among the definite objects which Government has put forward, the first is the improvement of the existing institutions for Mahomedans i.e., Islamia College at Lahore and of the Islamia High Schools. Another object put forward is the maintenance of hostels for Mahomedans under private management with religious teaching. Well, gentlemen, this institution will fulfill, I am glad to say, both these objects. It sime at an improvement of the existing Islamia school, and, at the same time, it provides for the maintenance of a hostel for Mahomedane under private management associated with religious teaching as well. It is therefore a great pleasure to the Punjsb Government to promise a donation of Re 29,000 towards the building fund on condition that a sum equal to balf of the Rs. 14,000 will be provided by the Mahomedan community That condition. I understand, has not yet been fulfilled but I trust that the generosity and the public spirit of the leading Mahomedars many of whom I see here today, will very speedily supply the deficiency and that you will soon be able to come forward and say that "we have provided our Re 14 000 we shall be very glad of the Rs 28,000 placed at our disposal" If your community is able to raise a still larger sum than Rs 14 000 I think I can assure you that Government will within reasonable limits also increase its donation policy of Government in these matters. I need not assure you, is not one of doles, it is one of as sistance Government will supplement the efforts of local associations and communities, but it depends on each body to show that it has made due efforts and that its members have done what is in their power They can then come forward

and ask Government to supplement their action In your address you have suggested a method by which funds for the development of Mahomedan education might easily be secored, eas that a special cess be raised from the Maho medan members of the community who nav land revenue in addition to the land revenue. the proceeds of this cass being devoted to The auggestion is Mahomedan education worthy of consideration and when put forward will receive it Probably the only way in which the proposal could be entertained would be for the District Board to represent that the existing cess which is still below the limit which the District Board could levy for public purposes should be raised to some point within that limit, and that the additional amount so realised be distributed between the different communities, : e, Hindu and Sikh landowners as well as the Mahamedans, for the benefit of their respective educational institutions. Put in that way with out committing myself to any promise, I can say that the proposal will receive due consider tion from Government

I have explained to you briefly the policy of Government in regard to Mahomedan education At the present moment a creatlar is insuing on the subject from the Punjah Government of the state of the co-operation of the theory of the policy which Government has now laid their opinion as to the best method of realising the policy which Government has now laid down I trust that when that letter reaches you, Government will be put in possession of many valuable opinions which will enable it to many valuable opinions which will enable it to stigma that the Mahomedan community is stigma that the Mahomedan community is the meet beckward in education of all the

communities in the Province. The statistics of Mahomedan education in the Rawalninds Division which have been quoted in the address met read out are very significant, and I am afraid, are rather depressing But now that the community has awakened to a sense of its obligations, and that Government is willing to assist the community in developing its educational institutions. I trust that before many years this reproach will be removed. The present institution is one of the indications of that co operation, and I samply give the promoters of this undertaking a word of friendly advice, that is that just at first you should not attempt to do too much, and that you should cut your cost according to your measure by keeping your scheme within the re sources at your disposal.

(FOREIGN)

Vernacular Universities

Sir Theodore Morison a member of the Council of India and of the Public Services Commission, delivered a remarkable address on July 8 at India House in support of the proposition that the vernaculars should be the medium of instruction in the Indian universities, writes the London correspondent of the Manchester Guardian. A large audience of Indian students assembled, several of whom in the subsequent discussion made appreciative references to the lecturer s notable work as Principal of the Mabomedan College of Aligarh Sir Theodore declared that we must work towards the creation of universities in India importing their knowledge in the verpscular English education had been an enormous boon to India, and Western ideas had produced a beneficent direction of Indian thought. But this revolution might have been more general and useful if ideas had been spread in the verpaculars. The main disadvantage of the system of instruction in English was that it kept the Indian vernaculars poorer and anenriched by the thought and learning of Indians who are making large contributions to the thought of the world The value of their work did not pass to the veruscular-speaking peoples. Then the student was hampered by the task of reproducing his ideas afresh after learning them in English, and words have a genius of their own which frequently cannot be recovered in another tongue. The continuance of the present bilingual system in India was undesirable, and we must seek in the universities to enrich, enlarge, and expand the verosculars so that they may become an adequate medium for the expression of Indian thought and emotion

Students in Germany.

In the year 1893, the number of students attending the Universities of Germany amounted. all told, to 27,000. Ten years later the number had increased to 35,000, but shortly afterwards an enormous addition took place, so that in the course of a further decade the number of German students attending the various seats of learning in the Fatherland had nearly doubled itself. In the winter term 1912 to 1913, there were 58,925 students matriculated at the twenty-one German Universities, and if we add to this number 3.750 men and 1.722 wemen who were not matriculated. but who were attending the lectures as guests, then we have a grand total of 64,337 persons attending the various German Universities during the term in question. But the summer term of 1913, witnessed a still prester increase to numbers, the number of regular students amounting to 60.350, and the entire number of ladies and gentlemen attending the courses, including those who had not regularly matriculated, amounted to 64.462. This great increase in the number of German students may, writes a Berlin correspondent to a contemporary, be attributed to various causes. In the first place, the increase in the population of Germany has naturally created a vast number of positions to be filled : more schoolmasters, judges and barristers are called for, and there is also a greater demand for doctors, chemists, etc. Further more, the vastly improved financial position of the entire country and the higher existing standard of culture have caused great numbers of the middle, and even of the lower classes to strive for the advantages of a University education. There are also two other factors which must not be forgotten: the increasing number of foreigners attending German Universities, and the fact that women students are now admitted. In the year 1572, the German Universities were visited by about 800 foreigners; at the present moment, the number of these non-German students must amount to some 5,000. With regard to lady students, there were about 1,103 of them attending German Universities in the year 1908, but the winter term 1912 to 1913 could boast of 3,213. The number of students is still steadily increasing, but not with such leaps and bounds as during the period already mentioned.

Law Teaching for the Citizen.

The retiring President (Sir John Macdonell, C.B.,) of the Society of Public Teachers of Law, delivered au address, at the annual meeting of

the Society held on July 4, at the London School of Economics.

Sir John Macdonell asked his bearers to copsider two questions. Whom were they to teach. and what were they to teach? The public teachers of the law did not, as it seemed to him, always put their claim sufficiently high. They had too much abandoned a large region to others, who if not trespassers, had only a bare possessory title-certainly had no prescriptive rights. The average citizen knew nothing except what he nicked up from miscellaneous reading of law or its history; nothing of the principles discernible in all systems of law; nothing of its chief rules which embodied well-tried ethical trafbs; nothing of that sense of continuity to be imparted by a study of law as by nothing else. What wooder that there was often a kind of estrangement or alienation between the bulk of men and the administration of law. The study of law was once deemed in this country an essential part of a liberal education. Locks, who for more than a century dominated opinion as to education, argued at great length for this "It will be atrange to suppose that an English gentleman should be ignorant of the law of his country. What Locke supposed to be "strange" is to day fact. Yet could any system of liberal education for the intelligent ctizen be complete which left out law? The President indicated some of the many classes other than lawyers which might profit by such instruction; for example, fature public officials and administrators, legislators some men of letters, and the large and powerful, if indefinite, class, journalists, no doubt a vague term but sometimes applied by those who could not write to those who could as if a term of opprobrium.

There was one obstacle, the prevalence of something like distruct of jurisprudence having any thing to teach of real value to the ordinary citizen, which was the burden of so much litigation. Professor Radbruch had collected examples of the hard sayings by men of eminence as to the worthlessness of jurispradence. description of the Corpus Juris as the Devil Bible was but one example of many. Even the successful advocate or solicitor rarely thoroughly believed in the value of scientific teaching of law; The eloquent speeches of Lord Westbury and Selborne and Lord Russell in praise of legal education must have prompted in many minds the question, "Did you rise to professional emineuce by the means which you recommend to others!" To teach the ordinary cilizen you must entiafy his thirst for reality-what a German juriet called Wirkicheitshunger-put life into what often seemed to so many so much dead matter The public teachers of law might one day have to combat the endeavour to expel it wholly from the curriculum of liberal studies They would pass through a crisis and resist the enemies with more success if they beightened their claims and enlarged the bounds of their science This was not a question of the knowledge to be got by practising in Court The great teachers or expositors of law were not experienced practitioners but those who combined the scientific spirit with discipline and imagination work ing in an atmosphere of knowledge, of whom there were three supremeexamples-Montesquien, Blackstone, and Ihering If they were to conrince the ordinary citizen that they had a mes sage well worth listening to-if in the struggle, becoming ever keeper, of competing studies their was to hold its own "Back to Blackstone." with his culture, his wide outlook, his good sense and his grip on the facts of life might be sound advice.

Moslem Education

In introducing the Indian Budget in the House of Commons Mr Montagu referred to his visit to India and his speech concerning education in India is interesting

They realize that they have too long neglected the educational opportunities Government has offered them The fact that some most semicent Mussalmans occupy high places in India most convince them that there is no discrimination against Islam

All educated Indiana must recognize that is would be disastrous if dynamics of oppolation due to religious and historical causes, were to coincide permanently with a difference of intellectual level, and if the important Mussalman community were allowed to remain outside the influences of the forces moulding the India of the fotore.

We may say that arrangements which the Local Government can make for the encouragement of Mussalman papils in scholarships and special courses will be welcomed by the best elements in other communities

DACCA UNIVERSITY SCHEME

Mr Montagu referred to the proposed new University at Daces and the opening of a most important chapter in the higher education of India, with a residential system which Govern ment contemplated as a model for New Univer sites in India He paid a tribate to the private enterprise in teaching in India, especially the splendid work of Missionaries He referred to the Biscos School at Stringger, the Anglo Vedio Arya Samp College at Midata the Orford and Cambridge Hostel at Allahabad St Xarier College in Bomby, and the ertiminal tribes He emphasized the need for presonal influence in and the tradequary of text book cramming

He alloded to the education Resolution and well we have contemplated the Great Central Research Institute in Lodis for equipping Indian students for original work in oriental philosophy, and have a great Oriental School in London then we may hope that we have done for the Contemplation of the Contempla

• THE UNIVERSITIES

BOMBAY UNIVERSITY

The proposals of the Syndicate of the University of Bombay in regard to the utilisation of the recurring and non recurring grants given by the Government of India have now been published The Syndicate first referred the matter to a Committee which recommended the following measures -(1) Courses of lectures by eminent Professors of British Universities, who would visit India for this parpose . (2) Inter-Collegiate lectures to be delivered in the main by members of the staffs of the Colleges of the Presidency and to be paid for by the University, the appointments being temporary, (3) University Professors bolding permanent appointments Committee, however, recommended that such permanent appointments should be postpoped full the Expert Adviser had made his report. The proposals of the Committee were accepted by the Syndicate, approved by the Senate on September 30th, 1912, and submitted to Government The Government of India approved provisionally this triple scheme, but they suggested that the inter collegiate lecturers should hold per manent appointments and they reversed the amounts allotted by the Senate to the lecturers from Lurope and India respectively. The Syndicate have now reconsidered the scheme and have laid down certain principles by which they should be guided. They consider that for the promotion of post graduate study three classes of teachers are required-First come Professors of distinction holding

permanent appointments, who would carry out priginal research, train students and lecture to them and vive an indication of their work to the public. They shall have to be highly paid and be given ample leisure, and they will be expert advisers of the University in all matters connected with their subjects, Secondly, there will be Readers to deliver courses of lectures on the special branches of learning in which they are interested with a view to the assistance of students entering upon research work or conducting special studies. These lecturers would be selected from distinguished scholars in Europe. They would be requested, in selecting the subject of their lectures, to have repard to the nature of the post-B.A. Course and to publish beforehand a synopsis of the Course. They would be expected to deliver not less than 24 lectures and also to undertake some direct supervision of students' work in the period during which the Course lasted. Such supervision mucht mean a personal interview once a week with students and advice as to their methods of study. Only gennine post-graduate students should have a claim to such belp from the Readers. Lastly, there will be lecturers, appointed by the Syndicate who will give systematic instruction to M.A. students and supervise their work. These lecturers would be generally though not as a rule, drawn from College Professors, The Syndicate, however, propose to confine themselves in the next year to the second and third parts of the scheme outlined above, in view of the limited funds at their disposal. The time in which these lecturers will be delivered will be the monsoon term of 1914 and the place will be either Bombay or Poona according to the number of students that come within the scheme. In regard to the appointment of Readers, the Syndicate, it is proposed, will apply to such bodies as the Universities Bureau of the British Empire and advertise the places in London papers, and after choosing the persons, request the India Office to engage them. Each Reader is proposed to be given Rs. 4,000 for a course of lectures, all the expenses to be borne by him. Each lecturer will get, for one course of not less than 24 lectures, a sum of Rs 400, which may be supplemented by fees paid by students. The subjects chosen by the Syndicate are Oriental classical languages, preference being given to Sanskrit and Persian, general modern history and Indian history, sociology and economics and philosophy. Three gentlemen distinguished for scholarship will be invited from Europe to give as Readers of this University, courses of lectures respectively, (i) in an Oriental Language and Literature (pre-

Modern (includin ferably Sanskrit); (ii) Indian) History; (iii) Sociology (including Economics). The courses will, in each case, consist of not less than 24 lectures. The University will provide three distinct courses of lectures in each of the following five branches of the M.A. Course : (i) Oriental Classical Language, Sanskrit; (ii) Oriental Classical Language, Persian; (iii) History; (iv) Econom-ics; (v) Philosophy. These enbjects are the same as those proposed for the Readers, with the addition of Philosophy, so that M.A. students who attend the Courses of both Readers and Lecturers will get from three to seven Courses directly on or connected with the branch they selected for study : in addition they will have advice and direction from as many teachers of ability.

University Teaching.

Errent Aprises ron Bossit.

A meeting of the Sensie of the Bornbay University was held recently, the Hon. Mr. Jackies Heston, the Vice-Chanceller, presiding. The solution of importance on the agend trends tracking. It may be a spontanear of the special control of the spontanear of

Principal & L. Cyrenton, model, as recommonded by the Syndiants: That the Seast approvas of the appointment of Six Alfred Hepkinson, E.C.M., LL.B., E.C., Volo-Classedius of the Victoria University of Macchester, as the stream mentioned in the message for the Corresponding to the Stream mentioned in the message for the Corresponding to the Seast Stream of the Corresponding to the Seast Stream of the Corresponding to the Seast Stream of the Sea

CALCUTTA UNIVERSITY

Dr. Rash Behari Ghose has made a magnifuent gift of Rupees 10 laths to the Calcutta University for echolarships and studenthing in conoccion with the University College of Science. All praise to Dr. Ghose,

Chair of Economics.

The University of Calcatta has offered the Minto Chair of Economies to Mr. C. Findley Shirras, a native of Aberdeen. He is the eldest son of Mr G F. Shirras, Aberdsen, and was educated at Gordon's College, Aberdeen Una versity, and London At Aberdeen University. he was first prizeman in political science, second prizement in the graduation class of political economy, and first prizeman in the honours political economy class. He was senior student in economics at Wrens, London, and at the Indian and Colonial Civil Service Examination did well in that department In October, 1908, for original work in labour economics he was elected a Fellow of the Royal Economic Society In 1909 he was appointed Professor of Economics at Dacca College while a year later he was appointed to the Government of India Prices Inquiry Committee, and placed on special duty in the Finance Department Mr Shirras is at present attached by the Government of India to the Board of Trade, Whitehall

ALLAHARAD UNIVERSITY.

Applications from Private Candidates The Registrar has addressed the following communication to the Director of Poblic In struction, Principals of affiliated Colleges. Head masters of recognised schools, and Inspectors of Schools.-

As there seems to be some misapprehension in repard to this office Circulars Nos. 9 and 13 of 1911, the undersigned has the honour to resterate the directions communicated in the aforesaid Circulars, and to ask that they may be strictly adhered to.

- 2 The Meetings of the Syndicate and the Senate in the month of January being no longer mandatory, all applications for permission to appear at an examination other than the Matriculation examination should reach this office by the end of October each year Applications which are not received in this office by the end of October will not be considered All intending applicants should be so informed
- 3. Applications from caudidates asking for permission to appear at the Matriculation examination as private candidates, should reach the University office not less than six months before the date fixed for the commencement of the next Matriculation examination. All apple cations that are not received on or before this date, cannot be entertained
- It has been ruled by the Syndicate that candidates for the M.A. Final (not Previous), who have studied at a College for two years and failed should be permitted to appear at future examinations for the degree of MA without being required to attend further lectures, pro-

yided that the Principal of their College recom mends their application. The same principle should be applied to persons who have been allowed to appear as Private candidates for the M A Final as Teachers This, however, does not exempt such would be private candidates, s.c., candidates, who would oppear either as ex students of a college or as teachers from applying as usual. for the grace of the Sengle under section 19 of the Indian Universities Act of 1904

PUNJAB UNIVERSITY

Hon Mr Shadual Re-elected The Hon ble Mr Shadrlal has been re elected to the Council by the members of the Sepata and Honorary Fellows of the Punjab University.

CAMBRIDGE UNIVERSITY.

The Acton Library

The establishment of the Acton Library at the west and of Scott a building in the Cam bridge University Library has been completed at a cost of nearly £9 000 The library was offered to the University and accepted by them in 1902 by Mr John Morley (now Viscount Morley) to whom it had been bequeathed by Lord Acton, formerly Regins Professor of Modern History in the University In the letter in which the offer was made. Mr Morley described the library as not one of those noble and miscellaneous accumulations that have been gathered by the chances of time and taste in colleges and other places of old foundation, but collected by Lord Acton to be the material for a history of liberty, the emancipation of conscience from power, and the gradual substitution of freedom for force in the government of men' The Acton Labrary contains some sixty or seventy thousand volumes of books chiefly historical. of which the main body is understood to have been acquired by the late Lord Acton between the years 1854 and 1884 The transfer of the library to Cambridge was no light matter, as the books weighed no less than 400 tons All this mass of literature has been arranged and catalogued, a special staff having been employed for the purpose Metal framed cases were specially designed and made for the accommodation of the broke The Library Committee base mened a report putting on record how the mammoth work was undertaken and accomplished and they are now asking for a sum of about £1,750 to enable them to prepare and publish a separate catalogue Not till this need is met they declare, will tho history of the splendid gift of the Actor Library have found its biting consummation?

TECHNICAL EDUCATION.

TYPEWEITER TOPICS,

REMINSTON NOTES

Typewriter Co. have gotten out a most excellent number. The cover is a Fourth of July one, showing the American Engle and the Liberty Bell and the great Remington seal,

Thus uses we flod is very helpful and interesting to stnong-raphers, and we call particular attention to the article by Miss Mary E. Orr, control "The support Work", and also to the control "The support Work", and also to the work of the control that the contro

THE VICTOR TYPEWRITES PLANT IN NEW YORK.

The basement contains the new power plant, which generates electricity for the use of power as well as hight; the equipment is of the very latest and most modern make, the power being trausmitted to moters on each floor.

The street floor is not yet equipped, but the second floor is equipped with the latest and most most modern milling and drilling machines obtainable at the present time.

The third floor, where the offices were previously located, is crowded fall of punch present that are exertastically busy punching out the parts that are later to be assembled.

The fourth floor is devoted entirely to the polishing, plating and automatic screw machines. About two-thirds of this floor is covered by the most modern and up-to-date screw machines made.

The fifth floor is devoted to the offices, shipping department and stock room. In the stack froom, especially, are many modern but simple devices for keeping stock in order and for impecting same, which convinces up, beyond a doubt, of the great produce below imprary takes of the foliabled produce below in groups takes of the foliabled produce below in the produce below in the produce below will go into the Victor typewriter.

The sixth floor is another great revelation as on this floor the ispanning room, which in most other factories is rather an unclean place owing to the character of the work which of necessity

must be done, is, owing to the modern equipment of the Victor Company in this respect, immacalately clean. On this floor is also the type-making department, on which is one of the very latest models of machines for making type.

The next floor is a well equipped assembling room. Everything in it is nest and in order and the work laid out na way that shows that great care and thought has been put forth in the equipment of this floor for the assembling of the Victor typowriter.

TECHNOLOGICAL EDUCATION IN BENGAL.

A Committee was appointed by the Government of Bengal in January 1912 to consider various questions connected with Technological Education generally and to advise on the desirability of creating Technological Institute in Calcutta-The Committee duly submitted its report which was subsequently examined by another committee of experts who have worked out a detailed scheme for the establishment of the proposed institute. In accordance with the promise made by the Government the reports of the two committees are now published for general information. Copies can be obtained at the Bengal Secretariat Book Depot, Writers' Buildings, Calcutta, for annas 10 and Rupes 1 respectively. The Governor in Council will take the reports into consideration in October 1913, and will be glad to receive before that date any criticisms or comments which may be offered on the subject of the proposed scheme. All such communications should be addressed to the Secretary to the Government of Beegal in the General Department.

INSTITUTE FOR CALCUTTA.

A report by the Hon. Mr. R. N. Nathee, Mr. G. W. Kuchler, and Mr. W. H. Evrewtt. Sperintendens of Industries and Inspector of Technical Institutions, Bungal, on a Technological Institute for Ohloutta has just been issued. The report suggests that the Imperint Secretarists are forcer under the Control of t

SIDENRAM COLLEGE OF COMMERCE, BOMBAY.

The staff of the proposed Sydenham College of Commerce, Bombay, will be a Principal on 2900 per annum, a Professor on 2700 per annum and two lectorers on Rs, 300—500 per mensem

each The Principal and Professor will be appoint ed in England and the lecturers will be qualified Indians, The College scheme bas obtained the financial support of wealthy merchants, but the metitation will be entirely under Government control.

SECONS OF INDIAN STUDENTS

The results of the City & Guilds of London Institute Examinations, held in the Victoria Jubilee Technical Institute, Byculla, Bombay in April 1918, have been received

Thirty two students of the Institute entered for the Cotton Spinning Examination of whom 27 or 84 o/o were successful, vis 9 in Grade 1 12 in Grade Il 2 in Final Section A. and 4 in Final Section B

Twenty three students of the Institute entered for the Cotton Weaving Examination of whom 16 or 69 olo were anccessful ets 12 m Grade 1 3 m Grade II and I in Final Section B

Fire students of the institute who entered for the Cotton Dreine Eramination were all successful Twenty students of the Institute entered for the Mechanical Engineering Examination of whom 14 or 70 o/o were successful, vis II in Grade I and 3 in Grade II Forty five students of the Institute entered for the Electrical Engineering Examination of whom 30 or 67 o/o were successful vis 15 in Grade I 7 in Grade II (Alternate Current) and 8 in Grade II (Continuous Current) Twelve atu dents of the Institute entered for the Motor Car

The pesting of and	olo es an Ante	MELD OF	CCO	0111
-	Appeared	Passed		
Telegraphy	32	26	1,0	81 o/c
Telephony	5	5		
Electric Wiremen	Work 5	5		

These results compare very favourably with the results obtained in England the papers and conditions of Examinations being the same in both Canes

The following is the list of successes forwarded from the authorities in London -

CITY AND GUILDS OF LONDON INSTITUTE DEPARTMENT OF TRUITADIOGY

TECHNOLOGICAL EXAMINATIONS 1913

endon the chiam of the contract of the contract of

L	et of Candidates who have passed t	he ezammatione held at Bombay Victor Inetitute, Byculka	va Jubiles Tre	hnical
Exam: nation No	Candidate's Name	Subject of Esamina	Grade or section	Class.
85	Bhosekar K D	Soap Manufacture	Figs)	2
210	Rahotgi Jugalkishore	S ik Dyeing	Grade I	2
ì	Gapte Yeshwant V		Orade 1	2
174	Mande M B	do do	ďσ I	2 1 2 2 2
181	M str: Jamehed, P	do do	do 1	2
171	Chobe D J	do do	do I	2
149	Row V Hannmanta	do do.	do I	2
150	Row V Hanumsuta	Cotton and Lonen		
		Blesching	Grade I	2
329	Desai Tatya, V	do do	do I	2
3	Sundram N M	Cotton Spinning	Grade I	1
46	Sahiar Phiroze B	do. do	do, I	2
49	Ko-hwala Jamshad D.	do do	do I	2
133	Dikahit, D C	do do	do I	2
175	Mande, M B	do do.	do I	1
187	Waj fdar Bapuji D	do do	do I	2
203	Chudghar Kemehand, P	do do	do I	2
354	Madan Ruttonsha E	ಡೆತ ಫೆತ್ಮ	do I	2
44	Lamaye Jagaonath R	do. do	do, I	2
45	Darukhanawalia Naoroji A	do do.	do. I	1
54	Blumoria Falee R.	do do	do I	2
125	Oke Smaram, D	do do	do I	1
168	Wadia Ardeshir N	do, do	do 1	1
336	Elsvin Jamsbedji A	ಕೊ ಕೊ.	do I	1
338	Desai Dayali, G	do, do	do I	1
2	Cupte Yeshwant, V	do do	do II	1
40	Pitale Jayawant H	do do	do. II	22122122222121111121
50	Bhiwanker, Z R		Grade II	1
55	Fozdar Gordandas, K.	do, do	do II	ī
126	Oke Sitaram, D	da. da,	do 11	1

Exami- nation No	Candidate's Name.				Subject	of Eram tion.	ín s -	Grade or section.		Class.
176	Mande, M. B				Cotton Br	nionine		Grade 11	•••	1
178	Aggarwal Chet. R.		***	***	do.	do,		do II		ī
204	Chudger Khemehand, P.				do.	do.	***	do II	***	1
337	Elavia Jamebedil, A.	***	•••	***	do.	do.	•••	do. II	***	1 /
4	Sundram, N. M.	***	•••		do.	do.		do. II		1
45	Limaye Jaganuath, R.		***		do	đa.		do. II	***	1
52	Gonsalves Alexander	***	***		do,	do.		do, JI	•••	1
164	Wadis Ardeshir, N.		***	***	do.	do.		do, II	•••	1
208	Joshi Kashinath, S.		**	•••	do	do.	***	do. 11	***	2
122	Meswani Vithaldas, M.		***		do	do	***	Final Sect A	***	2
, 198 119	Kapali Batilal, M.		•••	***	do.	do.	•••	do, Seci A		1
897	Wesmaker Nathubhai, C	·	• • • • • • • • • • • • • • • • • • • •	•••	do.	do.	***	do. Bec: A	•••	1
117	Elijah Hoel Wesmaker Nathubhai, (***	•••	do.	do.	***	do Sec A	***	1
196	Kapalı Batilal, M.		***		do.	do-	•••	da Sec: B	***	i
123	Meswani Vithaldas, M.	***	•••		da,	do.	***		•••	1
- 5	Sandram, N. M.	•••		***	do. Cotton W	do.	•		***	ĝ
29	Nathani, N. J.			•••				Grade I do. I	***	1
51	Bhiwanker, N. R.		•••	•••	do do	do. do.	•••	do. I do. I		2
56	Fordar Gordbandas, K.		•••	***	do.	da.	***	do, I		ī
60	Mogrels Phirozebaw, E.			***	do.	do.	•••	do. I		1
69	Modi Kesharimal, G.				do.	do	•••	do I		2
101	Ghella Shevii, H.	***	***		do.	ďo.	•••	do. Î	***	2
151	Row V. Hannmanta	***			do.	do.		do. I	***	1
172	Chobe, D. J.		•••	***	do.	do.		do. I		2. 2
199 371	Dalai Parmanandas, V.		***	***	do.	do.		do, I	***	2
393	Poonatar, M. K.	***	***	***	do.	do.		do. I	***	2
396	Moses, J. M.	***	•••	***	do.	do.	***	do. I	***	ı,
6	Nathani Alandin, J.	•••		***	do,	do.		do I	•••	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
118	Sundram, N. M. Wesmaker Nathubhai.	···	***		do.	đo,		Grade II	***	
121	Meswani Vithaldas, M.	Е.		***	do.	do,	***	do. 11	***	â
198	Patel Harilal, M.	***	•••	•••	do-	do.	***	do, 11	***	ğ
327	Aiver, P. V. V		•••	***	đo, đo,	do. do	***	Final Sec. B		3
891	Variab Dinkes 37		***		relegraphy		***	Grade I		2
356	Jethmalani, K. L.			7	do.		***	do. I		2
141	Nair, K. V	***			do.		***	do. I	•••	2
37Š 353	Daru Manilal, S.		***		do-			do, I		3
324	Ramnathpur Subba, R.	***	***	•••	do.			do. I		
92	Monohar Vasudev, H. Sant Narayan, M.		***	***	, do.		•••	do. I	***	2 1
73	Dick Shavakaha, P.	***	***	•••	do.		***	do. I	***	í
168	Bendali Rupaji, G.	•••	•••	***	do.		***	do, I	***	ġ
81	Abidin Sam	***	***	***	do.		•••	do. I	***	1
90	Sarangpani, S. W.			•••	do.		•••	do. I		1
77	Vergie Uyril, M.				do.			do. Î		2
29	Aras Vishwanath, B.	***	A**		do.			do. I		ī
209	Rao Narasipur, R.	•••		***	do.			do. Î	***	1
380	Shinde Sakharam, A.	***			do.			do. I		1
352	Kaiwar Tirumala, R. H. Setti K. S. Bhadra	•••	***	***	do.		***	do. I	***	i.
389	Thosar Chintaman, N.	***		•••	do.		•••	do I	***	, î
12	Mehta Koonverji, M.	***	***	***	do.	,	***	do. I	•••	` <u>a</u> .
110	Thorvey, K. R.	***	***	***	do, do.		***	do, I	***	î
.78	Marathe Gangadhar, H.	***	***	•••	do.		•••	do. I -	•••	2
157	Langer, R. N.			***	do.		***	do, I		2
111	Pillai M. Thann	***	***	***	do.		***	do, 1		2
105 67	Pillay, J. K. N.	***	***	***	do.		***	do. I	***	3
83	Rao, M. R. M Alaudin, R	***	***	•••	do.			do. I	•••	. 9
, , ,	eriadoini in	***	***	***	do.		***	do' I	***	. •

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Eran				
natio	n Candidate's Name	Subject of Examina	Grade or	
No		tion	section.	Class
		******	section.	
323	Desar Bhalchandra, R.	Telegraphy		
165	Desai Lallubhai D	do	Grade I	1
86	Shahnis Dayaram G	do	do. 1	ī
91	Sarangpant S W	Telephony	do I	1
93	Sant Narayan M	do	₫o Ī	1 2 2 2
325	Manchar Vasudev H	do	do I	2
360	Kumthekar V L	do	qo Î	2
395	Parikh Jekisondas M	do	do I	2
		Electric Wiremen's	do I	2
11	Mehta Koonvern, M	Work	do. I	_
79	Sri vastavai Radhikaprasad	do	do I	1
107	Pillay J M L.	do	do. I	2
127	Pllat M Thanu	do	do 1	2
129	Thorvey K R	do	do 1	1
25	Lal G rdbsrı	Electrical Eng	do I	ĩ
42	Motiwani, N D	do.	do I	E.
66	Dn M S	do	do. I	ř.
68 76	Rao M R M	d _o	do I	5
87	Vergu Cyril M	do	do I	5
96	Shahani Dayaram G	ďσ	do. I	-5
100	Dhavle Krishuaj B.	do.	do I	5
106	Dadachani Jamahedji, P	do,	do, 1	D D
140	Pillay J M N Nair K V	do	do I	b
120	D n Mohammed	do	do I	221194444444444444444444444444444444444
136	Kumthekar R. L	go.	do I	P
361	Basaval ngam Basavappa	do	do. I	P
364	Bri vastayai Radhikaprasad	do	do I	P
350	Rampathpur Subbs, R	do.	do I	P
24	Assists d Eruch H.	do do (A.C.)	do 1	P
75	Dick Shavakaha P	do (A C) do do	do II	P
38	Karpur Govered R B	do do	do II	P
185	Cantol Narandas, R.	do do	do II	P
184	Daftary Batilal N	do, do.	II ob-	P
192	Bhatt, M B	do. do	do, II	P
189	Parekh Jekusondas, M	Electrical Eng:	40. 11	P
372	37 3 3.00	(Alternate Current)	do, II	
832	Mondgal Noggeball	do do	do II	P
20	Kaiwar T rumama, R. II	do, do.	do II	P P P P
74	Reghavan N C	do (Con C)	do. II	T.
182	D ck Shavaksha P Cantol Narandas R	do, do	do. II	P
190	Parekh J M	do. do	do, II	P P
191	Bhatt Mottram H	do do	do II	p.
206	Reo Narasipor R.	do- do	do, II	è
355	Jethmalana A. L.	ĝo do,	do. II	P P P P P
874 881	Mondgal Auggehalis N	do. do	do. II	P
331	Laiwar Tirumala, B H.		do, II	P
368	Datt Sarat C	do. do. Plumber s Work	do II	P
830	Fawkes Henry G	do, do	do I	P
98	P'lisi Ramaswami P	Mechanical Eng	do I	P
15	Choulanally C Ranca, R.	do do	do. I do. I	P
28	Natesan S	do do	do I	P
108 123	Na du N S	do do	do I	r n
179	Pillai, N Theru	- do do	do. I	r D
383	Aggarwal Chet Ram	da da	do I	r D
344	Driver Framers, H	do do "	do. I	p.
3-5	Narasimham C V	do do	do. I	É
347	Nares macharya, B. G. Rao, G. Range	da da	do I	P P P P P P P P P P P P P
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Erami- nation No.	Candidate's Name.		8	labject of E tion.		Grade section			Class.	
358 389 99 359 153	Mgrii, C Rama Bao C. Malhkharjuna Iyengar, S Narasumba Pillai Ramaseawmi Rao, C. Malikharjuna Pillai Pounnawany, G Mistri Dhunjisha, T. Sataria, S F Motiwalla Dadabboy, R Bao, C Malhkharjuna Rao, G Banga Joseph C. J	 		Mechanical do. do. do. do. do. do. Rail Carr: Carpentry: Briskworks Milling (File do. do. do.	do. do. do. do. Building and Join our Mr:)	 do. Final Grade do. do. do.	I III II I I I I I I I I I I I I I I I	, , ,	PPFSSSPSSPPPR	
22	Naisadu, K. G. K.	 	***	do.		 do.	П	,	 · ĝ	

Reviews and Potices.

OUTLINES OF VICTORIAN LITERATURE, BY HUGH WALKER AND MRS. HUGH WALKER. (CAM-

WALKER AND MRS. HUGH WALKER. (CA: BRIDGE UNIVERSITY PRESS). 3s. net.

Nothing is more striking in the recent tendencies of literary study than the special attention paid to modern epochs. The kinehip that undoubtedly exists in a very intimate form, between a reader and the literature of the period which is almost contemporaneous with him, is receiving adequate recognition. The Literature of the Victorian Era may be expected to rouse greater interest in the student of to-day, than that of any other period. Mr. and Mrs. Walker have been successful in bringing out a very useful manual for the study of Victorian Literature. It does not profess to be anything more than the mere outlines of the subject, but we have no hesitation in eaying it is enough for the average student at College, who has to specialise in that epoch. The division of authors according to the departments of literature connected with them is a great convenience, and the authors also deserve to be congratulated on the biographical interest they have been able to introduce into their treatment of literary history.

.We may however be accused for expressing the feeling that there eeems to be an occasional want of balance in the judgment of the authors. We are conscious of the induscoc exercised by German Hierature and thought on some writers of the Victorian Era, but we would certainly hesitate to xy that 'if may be described as the era of German

indisence. Nor should we think of trashing Alexander Smith with Matthew Arnold, Edward Fitzgendl, Rosetti and Arthur Hugh Clooph. It is doubtful if John Warres and Lord de Tabby deserts treatment in a manual of this description. James Antony Fronds does not certainly deserve special praise for the accuracy of his never special praise for the accuracy of his result of the accuracy of his new part of his new part

The lists of works given at the end of the treatment of the writers is a new feature, and they must be of great help, for cultivating a first-hand acquaintance with them.

Spelling and Punctuation, by H. Shoosette, M. A. (University Tutorial Press). 1s.

Educationists of the older generation in this country, have often bewaited the needed of some of the fundamental needs of education in the pursuit of new methods. This small book on Spelling and Penctuation is quite opportunt, as it seems to draw stateoin to things which do not seem to be receiving adequate treatment at the present day. The treatment of the subject is quite attractive, and the book must prove partial readout the contraction of the property o

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M. A. (UNITEESITY TUTORIAL PRESS) 2.

We have often had the pleasure of drawing attention to the merits of the volumes in Tutorial Shakespeare Series They seem just the kind of editions necessary for examinational purposes, and they also enjoy the ment of stimulating interest even in the laymen The introduction is valuable as usual and the notes are correct and to the point, being ample at the same time. The arrangement of the matter is clear and analytical and must therefore be easily remembered by the student

BELLS ENGLISH HISTORY SOURCE BOOKS THE REFORMATION AND THE REMAISSANCE, BY F. W. BEWSHER, BA , IMPERIALISM AND MR GLAD-STONE, BY R. H GRETTON (GEORGE BELL AND SOAS) Is not each

Indian Universities have begun to recognise the need of introducing the study of History from original sources into the curriculum of the B A degree in History The two volumes under review are admirably fitted for such a purpose, with regard to two such important periods in the History of England, as the Reformation and the Renaissance and Imperialism and Mr Gladstone Mr Bewsher's collection is particularly valuable as he has made a very discriminating use of avail able sources. He has wisely indented upon Laterature, and has included for instance sources like Skelton's Why Come Ye Not to Court for Cardinal Wolsey, and Mores Utopia for some side reflections on the social and economic conditions of the period The Rutland Papers, Holinshei's Chronicles and the Paston Letters have also been availed of for information Mr R H Gretton seems however to go in for sources of not very great authority, and has also entirely neglected the help he may have received from the litera ture of the period dealt with by him 1876 1887 Would not Alfred Austro, William Watson and Rudyard Kipling afford some valuable passages for an understanding of Imperialism, the Eastern Question and effairs in the Transraal ? Should the Times be the great oracle of the period on all subjects 9 It should certainly have been quite easy to mention the sources from which passages have been extracted in the contents. A mention of the authors and journals responsible for the passages would seem to be necessary in the Contents page itself. We hope the omission will be rectified in the next edition

HERRY IV PART I, EDITED BY A J F COLLINS, THE GOSPEL OF ST LEXE, EDITED BY RAY T. WALKER MA AND REV J F RICHARDS.

M.A (UNIVERSITY TUTORIAL PRESS). Is 6d The study of English Laterature cannot be complete without a thurough acquaintance with the Bible The University Tutorial Press has shown its recognition of this invaluable principle in quite a practical manner, by the publication of tais edition of the Gospel of St Luke The Introduction is very comprehensive, dealing with almost all aspects of Biblical scholarship large number of maps and illustrations must form a real aid to the understanding of the book.

LESSONS ON CHARACTER BUILDING, BY W H BALDWIN AND W ROBSON (THOMAS NELSON & Sons). 1s 6d.

It is no exaggeration to say there is no subject receiving more attention at the present day in the world of Indian I ducation, than the building up of the character of children in schools. It has not been easy to find a very satisfactory solution to the complex problem But Mesers Baldwin and Robson deserve to be congratulated on the very acceptable manual they have produced Its merits are many and we hope the following points will be enough to convince our readers of the success attained by the authors The illustrations are culled from the most varied sources, the teachings are based on a universal basis and do not contain anything offensive to any particular religion, the presentation is very simple and tary classes R ben we consider the insuperable obstacles that exist in teaching morality through religion in this country, we trust an excellent manual like this, which proceeds on an entirely non sectarian basis will command very wide support

THE CITIZEN AND THE STATE (INDUSTRIAL AND SOCIAL LIFE AND THE EMPIRE), BY J ST LEO STRECHEY (MACMILLAN & Co., LTD.)

The series of books in Messre Micmilian's Ortizen and the State bave attained to a very deserving reputation for their valuable matter and attractive exposition of problems which are of the highest interest to every citizen Mr. Strachey's book is quite up to the level of the other volumes in the series and no one will consider the Industrial and Social Life of the Seipmaon's French Series: Do La Terre, A La Luce, Edited by Lugene Pullissier 2s. Cung Semnicas en Balton, by Jules Verue, Edited by Eogene Pullissier, 2s. London: Macmillan.

Regional Geography of the World: Part II, Asia, Ecrope and British Isles (in Telogo) 6.42. Part III, America, Africa and Amstralia. (Telogn) 10.4s. by M. Sitaram Rao, Headmaster, Viresalingam High School, Rajabmundry.

Social Programmes in the West, by C. R. Henderson, the Barrows Lecturer. Bombay: Macmillan. 9 As.

Report on Public Instruction in Mysors for 1911-12, Mysors: Govt. Press. Composition from English Models. Book I. by

Ernest J. Kenny, is; Book II, by Ernest J. Kenny, is 6d. Loudon Arnold

Literary Selections from Newman, by a sister of Norte Dame London Longmans. 1s. 6d. Father Gregory, by Percival C. Wren. London: Arnold. 3s. 6d.

Indian Educational Protes. MADRAS.

"The Children's Day Retord."—The July Virefactionant is a record cumber. It is the best children's Day Record in Tamil. Lord Hardinge's brutheys ab some to be come as a diding institution brutheys is bound to be called, in view of His Receivery's forther in second the Parish of the Parish Country of the Par

The Bourashtra High School Mirrary Bontsy, Madara—The issupprai messing of the above Society for the year 19134 was held on the 1st work of the property of the state of the property of the the property of the control of the property of the prop

passages of prose and poetry should be cultivated by young men, if they without to train theseise in the sat of speaking or writing, and be quoted the ames of entirect men of England, who encouraged this kind of practice, so length, who encouraged this kind of practice, as the standard of the standard of the property of the standard of the probability of the standard ground for public speaking. Mr. Raja Ram lyen, in his conducting remarks atrongly support to his continuing remarks atrongly support to his continuer and the standard property of the standard of the standard passages from well-known standard authors and recommended the organisation of Tamil Societies in order to develop the Tamil Historica. After the meter of the standard passages are supported by the standard passages are supported by the standard passages and the standard passages are supported by the standard passages and the standard passages are supported by the standard passages and the standard passages are supported by the standard passages and the standard passages are supported by the standard passages and the standard passages are supported by the standard passages and the standard passages are supported by the standard passages are supported by the standard passages are supported by the supported by the standard passages are supported by the supported b

Trachter' Association, Maystram.—As meeting of the Trachter' Association had on the 6th instant under the presidency of the Inerptor, Mr. Harty, A. I. all the Frinser School teacher of Maystram Range—shous 200 all told—state sombled to the Manicipa Higs School Hall independent of well arranged, nearly the State of Maystram Range—should have been dependent of the State of the Maystram of the State of the Maystram of the State of the Maystram o

I have yet a pleasant duty to perform—a pleasant and an agreeable duty in the absence of the Headmaster, the President of the Teachers' Association, his mattle naturally falls on my shoulders, has thetenant, and happy and I that the function of proposing a vote of thanks to our worthy Chairman or this occasion devolves on me.

Before doing so, I wish to call our Chairman's attention to a few facts touching ourselves, as be is the guardian angel of our interests and pursuits.

I see before me a large assemblage of Primary school teachers of this lange, who have come from far off places, at some expense and personal incre-

venience, in obedience to a call of daty.

I regard them in more sense than one, as anticonductors; I do not mean that they are Cecil Rhodes and giants of that kind—but humble, honest

workers in the field of education. Their srade is brain culture. They shape and mould the faure statesmen and rulers, they make or mar they gress of humanity. They can elevate or depress the character of the coming generation

character of the coming generation of the character of the coming generation that allosted to mean in other walks of the You know the expression, "The shoolonaster is abroad." What does to mean? To my mind, it means that he is the eye-opene of the coming generation, uniform yet under the character of the coming generation, uniform yet under the property of the yet of the upper contrast the upbringing of loyal and useful citizens.

When a fond parent, leading by the hand his young hopeful, meets you the first and forerose request that he makes to you is. "Sir here is my daring, the stay of my life, please see your way to

open his eyes.'
Such at least is believed to be the noble privilege
and prerorative of these humble devotees in the

temple of learning

You know very well with whatesteem and honour our ancients regarded the status of a Guru, wby, the very Vedas, our Bible cries at the top of its voice, "I how to you, mother, my first God. I how to you father, my second God, I how to you, Guru, my third God."

my turnd uou. Our Tamil literature abounds in maxims such as these, 'Let my Guru's feet protect me' that is whenever people undertake ardmous tasks or risk business, they myoke the aid of the spirit of their

Such was and is still believed to be the sacred calling of a schoolmaster. You have seen the picture now presented to you and now I call on you to look

at the one that follows

Here with me swhile and sorrey the present attained this anciently respected people. They now go by the name of 'Foor schoolmaster. Note the expression, genellemen 1 is 'full of squiffeance expression, excellence 1 is 'full of squiffeance of the state of the state

Thus you see in the expression Poor school master is lurking the inner ides of simple innocence and incapacity to do harm to others, add to this their poor and unremomerative salary—many of them are passing rich with Rs 10 a mouth

In this wicked and sancy world filthy lucre commands and complet respect, it is the long partenthe accumulated energy of some forgetters accessor the accumulation of the second of the second of counts for nothing. These man here in we forth and demands of the belly, because of all kinds of relation, the rebellion of the belly is the worst and when one cannot find the wherewithat to appears the voments of the Belly two less must bench has know to be the second of the properties of the second of t

Thus you see though their function is holy and noble, their positior in his is so low that Municipal Thouses compare favourably with them inasmneh as they are paid its 10 for their work from morning 6 to 8 a. y. after 8 a. at hey are free lacces, might go about equirrel busings to fill their stomach and basket making to find their evening today; whereas

Primary schoolmasters have to work on Rs 10 from soon to eve and be ever on their vigil for the surprise visits of Supervisors and Sub-Assignat Inspectors of Schools—who will not allow them to earn some extra pittance by way of private intimo even during their hours of well earned repose and much needed rest.

My isla of woe, geotheren is at an end and if I am a little but ontapiken and nuwise in my inter-ince, it is because of the justices of my cance.—I know mire than any other where the shoe pinches

them You Sir, Me Churman, we expect you to cham pion the right cases of these poor Primary school masters and their avocation, we intend to use you as a lever to open the eye of the Director of Public Instruction and the Government and to make them seen to be right and true perspective the poorstatus seen the right and true perspective the poorstatus and the right and true perspective the Director Dismont Art record managerized and other Drogotter Dismont Art record managerized and other progetter.

Now gentlemen, we cannot sufficiently thank our Chairman for the patience be has shown and the willing ear he has lent to our cause and mission, I call on you all to sing in one choras in the right royal Legiths style, the long life and prosperity of

our worthy Inspector (Hip, hip hurrah).

The Presidency College -The report of Mr E W Middlemass, Acting Principal, Presidency College, Madras on the working of the college during 1912-13 discloses that the college was strengthened by the creation of two new appointments in the subordinate service during the year as Assistant Professors of Physics and Sanskrit The numbers of students on the rolls in the first and second terms were 600 and 582 respectively compared with 588 and 577 in the previous year There were as many as 38 M A students in the college The total of 600 students which was reached during the year was it is believed, the highest figure recorded for this college . There were 27 lady students The distribution of students according to casts orrace shows that Europeans and Eurasians were 27. Indian Christians (non-Panchamas) 13. Mohammadans 12, Brahmans 446 and non-Brahman Hindas St. Another statement shows that students belonging to the richer classes were 44 in number. to the middle classes 502 and to the moorer classes Ont of the total number of 562 students whose parents or guardiags were officials were 307 in number Tantore contributed as many as 101 students to the college, a s, a little less than one fifth of the total strength of the institution. The number of students taking up a language other than English has increased from 2 to 7 but the study of languages other than English is reported to be a ill anpopular The rollege has again had a large amount of success in every subject in the Intermediate B A degree and M A degree examinations, in which it presented candidates. In the degree examination sisteen students of the college were placed in the first class, and in Mathematics Physics, Chemistry, Zoology, Mental and Moral Science and History, the college

students were first in the first class and two of them secured the rare distinction of a triple first. Seventeen University prizes were awarded to students of the college The number of applications for admission on the strength of secondary school leaving certificates was again in excess of the number of vacancies, out of 560 candidates for admission only 97 were admitted Is is said that the accordary school-leaving certificates of a large number of the applicants showed that they were not fit for a Uniweresty course. While the receipts from fees and miscellaneous itams amounted to Rs 57.718, the charges amounted to Rs. 2,12,512 The games of bockey, football, cricket, lawn tennis and badminton bockey, football, cricket, tawa tennis and nadmuson ware played during the year. One handred and sixty-two students were living in the Victoria Hostel and the remaining 420 either with parents or grandians or in lodgings. The lodgings were inspected during the year by members of the college staff deputed for the purpose, and in only one or two cases were found unswitched. The one or two cases were found possitable. The Principal has included in his report extracts from the reports of the professors on the working of their respective departments. The Director of Public Instruction on reviewing the Principal's report has come to the conclusion that the working of the college during the year and the results of the various University examinations were very satisfactory.

College of Engineering .- The Director of Public Instruction has submitted to Government proposals of the Principal. College of Engineering, for the distribution of marks consequent on the rearrangement of the College classes, and also the modifications necessary to bring the syllabures up-to-date. tions necessary to oring one symmetry open-comment. The proposals have been approved by the Board of Visitors, and it is stated that the proportion of marks awarded in the College examination for practical work is smaller, in the rules as now proposed to be revised, than formerly. The Director adds that the proposed modifications in the syllabuses involve no radical changes. The Government have approved the modifications and the revised distribution of marks proposed by the Director of Public Instruction,

The North Malabar Teachers' Association -The first meeting of the North Malabar Teachers' Association was held in the Brennen College Hall with Rev. C. A. Schener in the chair. Mr. Krishnen Nair, the College Principal, has been appointed President, the Course Francipal, and seem appointed a resultant Mr. K. K. Subramania I per. Head Master, Mission High School as Vice-Fresident and G. Eshntachan as Secretary and Treasurer. The Inspector of Schools and Mr. Schener bare been appointed Patrons The Managing Committee consists of Mesers Maller, Vaidianatha Iyer, M. Kanudinya and some others This Association will be effiliated to the South India Teachers' Union We wish the Association every success and hope similar

South Mulabar All teachers who are in a position to understand the proceedings can become members.

[Aug. 1913.

The S. P. G. College, Trichinopoly .- The E P G. College secured the services of another clergy-man to the staff of Professors of the College in the Rev. W. E. McFarlane, M.A., B.D. Mr. Mc Farlane comes from Dublin University.

Kumbaconum College -From the report of Mr. A. Yates, Principal, on the working of the Kumbuconum College during 1912-13, we gather that the average number on the rolls and the average daily attendance were 179 and 162 respectively. 169 studenta were Brahmans, 10 were non-Brahman caste Hindus, 1 was an Indian Christian and 1 was a Muhammedan The great majority of the students, as usual, belonged to the Tanjore district. Distributed according to wealth, 159 students were of the middle class, and 7 and 5 were of richer and poorer classes respectively. There were some improvements carried out in respect of accommodation and equipment. Although the construction of quarters for the Principal has been abardoned, the land acquired for this purpose has been ordered to be reserved as an additional recreation ground for the college or as a site for possible future extensions The tutorial system continued to work well and the discipline of the college is reported to have been satisfactory. 85 candidates were examined for the Intermediate examination in Arts, of whom 20 passed with six in the first class. Eleven students gained distinction in English. For the B. A. degree examination 22 were examined in the English language division, of whom 12 passed with for in the second class. In the second language division 10 out of 10 passed in Sapskrit and 7 cm of 11 in Tamil. After two years of inadequals provision for games the college is in a fair way to be equipped with as great a warrety of games and as good a ground as any college in Southern India. It is reported that there is ample enthusiasm among the students and next year the Committee hope to organize this enthusiasm in a permanent form by grouping students and bolding inter group compettions. Mr. Ystes is very enthusiastic in regard to the value of games, for he cays in his report. do not think there is anything in College life that lends itself more to the development of character, or brings the staff and the students more together than games." The net expenditure of the College, deducting receipts, amounted to Rs 35,358-192, and the net cost per student was Rs. 197 sgamet Rs. 175 in the previous year. The work done by the College Literary Society during the year was on the whole satisfactory. The Principal is inclined to whole satisfactory. The Principal is included that think that the College work showed vitality and that the year was one of progress all round. The Director of Public Instruction in his review of the report congratulates the Principal and his staff on the continued efficiency displayed in the working of

Acc. 1913.1

Covernment Grant -The Covernment have sanctioned a grant of Re 3927 towards the cost of amprovement to the buildings of the Canara High School, Mangalore, Government have delegated to (1) the Superintendents; School of Arts and Reformatory School, Chingleput, the power to make appointments up to Rs 30 per mensem and to inflict punishment on persons so appointed; (2) to the Superintendent of Industrial Education power to sanction furniture grants to industrial schools up to a limit of Rs 50 and building grants up to Rs 100, and (3) to the above said three Superintendents the power to grant temporary exemption from examination rules, general and spread, and to employ noqualified candidates for a period not exceeding three months when the sanctioned pay of the appointment does not exceed Rs. 30 per mensem Government have sanctioned out of the Imperial grant of Rs. 23 lakes for Education provided in the Budget, an additional allotment of Re 22 200 for payment of grants to no enginterest paraters beenge or to arenament account of supends to students under training and have passed an order that a sum sufficient to meet this excess expenditure in 1914-15 should be reserved out of the non recurring portion of the Imperial grant of Rs 23 lakhe

Study of Vernaculars - Under the auspices of the Town Students Literary Union, an open debate was beld in the American High School Hall with Mr K. R. Venkaterama Iyer, R.s., B L., in the chair, the subject bung, " Is it necessary to introduce the lamil Language as a compulsory subject in the curriculum of the Intermediate and B.A classes?" There was a very large gathering of gentlemen. besides a good contingent of sto lents present. Mr. T. O. Breemvasa lyengar, na, a ... she Secretary of the Tam'l Sangam, opened the debate and presented a strong case in favour of the re-introduction of the Tamil Language as a compulsory subject. Mr K Chinneswame Iger, & & , Lecturer in Logi ab in the Madura College, opposed it on the ground that the present regulations should be given a fair tred before they were condemned Mr Ganapathi Iger supported the opener and Mr Rejagorala Iyer spoke in farour of the present regulations A pullege student also spoke in aupport of the view of the oppower

of the opposer of the opposer of the Medica College was also one of the speakers. He said by fivided to none in his admiration of the Tamil hierarchies the tendence of the te

regulations a fair trial before they sat in judgment upon their effect

The Hon Mr K Rama Iyenger said that when he came to the meeting he had not intended to offer any remarks on the question either way Now that an educationist of Mr Rajaram Iyer's experience had spoken decidedly in favour of the present erstem he thought it proper to mention one or two superits of the question. He would not give any opinion The point at issue was whether vernacus lars had been buried-that was the expression need. He should respectfully ask whether the best interests of the country had been served by the Senate The real point at issue was whether the University has lustified its existence and whether it has done its daty One of the speakers mentioned that a nation. al literature should be built. And he asked with some vehemence "It a national literature is to be built, are we to have a small percentage of those that study the vernaculars? Have the present regulations the tendency to bring in the largest number for the spread of the vernaculars ?"

Mr T S Krishna Rau, n a LT, spoke in support of Mr Baja Ram Iyers views and Mr Muddu Ramalings Iver against them Mr T C. Srecuisans Vengae briefly explical and with the closing remarks of the Chairman in the course of which he supported Mr Sreenivsas Iyenga's view, the meeting terminas

Rajahmundry College - The Principal's report on the working of the Rejshmundry College during reveals the fact that in the matter of strength and attendance the College bas regained its former strength The strength in the B A classes was an improvement on last year. Brahman students preponderated as usual, the other classes having been represented in comparatively small numbers. The majorary of students belonged to the Gedarars and Kietna districts. The College baring been newly a listed in Branch VI-Languagesthe Principal pointed out the necessity of appointing in addition to the Pardita a graduate in languages to teach the subjects on the modern lines erquired by the University, the education and mental outlook of the Pandits being unequal to the critical and bistorical treatment of the languages concerned The Principal has been informed that the Director sees no occasion for the appointment of a separate graduate in ispensors to addition to the Fandina 62 students were sent up for the Insermediate examination and 27 came out encremfet with three in the fret class 20 students were sent up for the R A degree examination for all branches. The results were excellent, especially in Fuglish. Of the 25 sent up in this addicts 20 passed The recents were an improvement over the previous year's, being Re. 19 fil acapairst Re 16 th in the previous year Partial breker terrie and bedreinen were played by the students during the pear. The hostel he f 24 boarders and 7 lodgers se spaines "O least year. The discipline in the College as reported to

have been satisfactory. Sir Alfred Bourne states that the generally efficient condition of the College was creditable to the Principal and the staff

Government Girls' School, Triplicane -The following G O. No 546, Education, dated 21st June, 1913, has been issued; -

In their Order No 238, Educational, dated 23th March 1913. the Government approved generally the proposal of the Director of Public Instruction to also over the alkharsia's Unit's School, Traphrane and the Presidency Training School for Mistresser. The Director now adminst detailed proposals for raising the school and the traveing section to the raising the school and the traveing section to the contract of the

2. His Excellency the Governor in Council is pleased to senction the Director's proposals subject to the substitution of the following modified scale of pay for the proposed establishment:—

Secondary School — Superintendent, Rs 250 10.300; Headmetres, Rs. 150-5-175; First saustant, Rs 100-5-125; Second assistant, 75-5-100; Two assistants such 75-5-100; Three assistants each 50-2-60. Three assistants each 40 2-50; Three assistants each 30 2-40; Oos Telcon assistants, 92-60.

Training section — First assistant 150 5 178; Second assistant 125 5 150; Third assistant 100.5:125 Oommon section — One music teacher 40, One drawing mistress 40-450; One clerk 20 151; Two

peons, each 8; One watcher 6; One gardener, 7; Three conductresses, each 3; One sweeper, 4; (The increments will in all cases be applied)

The sanction will be registered as No. 57 of 1913-14.

3. The extra charge in 1913 14 on account of the proposals now succioused will be met from the lump provision of Rs 15,000 in the current year's budget for a Government Secondary School for Girls in Madras

4. The Government agree with the Director in considering that the transfer of the Maharaja's Girla' School to the Educational Department abould be unconditional and they approve of his proposal to open negotiations for the purchase of the two plots of land belonging to the school,

Opening of New Elementary Schools—Twentyconsulty framery Schools are to be opened by the Consulty framery Schools are to be opened by the Consulty framer of the Consulty framers are recently given. The other he consulty framers are to starting similar achools. Mandisplates also have bad their quots of grants. The number of Board Elementers Schools is then increasing by lapse and passion without solidary agraved that there are repassion without solidary agraved by the sumber of education is now mostly gazaged by the sumber of secools, by the number of pupils under instructions and by the amount of money spent. Under the present system, pupils are often left in the same standard and there is no proper serution in regulaing their promotions. The three R's do not receive special attention and there is tangular errorgerator. Elementary schools of higher grades are not much resorted to for want of incentive.

Education of Backward Classes.—The following

The Government sanction the expenditure of a sum of Rs. 6,000 for the supply of books, slater and writing materials to poor and backward classes of pupils in Government Elemettary Schools, subject

(i) that the articles purchased shall remain the property of the school and he so marked,

to the following conditions :-

(ii) that the Headmaster of the school shall keep a separate list of all the articles with the date of supply, and

(iti) that the articles shall be used by pupils during school hours only and shall not be removed from the school

The charge will be met from the special Imperial grant of 23 lakes for education which has been made available for expenditure in the current year.

St Mary's High School, Madura,—The annual distribution of the prizes of St Mary's High School, Madura, was held in the Ds Nobil Hall on the Ithinst, with the Revd F. Bertram, S. J., Ractor, St. Joseph's College, Trichinoply, in the chair. The hall was nacked.

was packed.

Father J. A. Plancbard, Manager of the School, read the report for 1912-1913. The distribution of prizes was a very interesting one. The list of dozors of prizes nonlined the names of several promisest gentlemen of the town, both Baropear, and Indian. The Chairman then gave away the prizes.

Brekt' Memorial School — Too large ball of Breth's Hemorial School was filled min every large rether's Hemorial School was filled min every large rether's Hemorial School was filled min every large rether's the first distribution of prise since its recognization. The Chief was since its recognization. The Chief was since its recognization of the Chief was since its recognization of Signature Ludy Feetland. Among the large sphering I noticed Inday Atlesson, Ledy Stanta, Inc. Young, I noticed Inday Atlesson, Ledy Stanta, Inc. Young, the Indicate Inday States of the Stanta Indicate In

Fewkes gave test, mony of 1 is skill as a very promising pisons: In his readering of Schumann's Fashingrehmank aus Wien, while the members of the school chur rendered the part song I would that way fore Miss Copout very ably assisted as the piano.

Teachers' Collega, Saidapet—Of the 93 gradoats students on the rolls in the Saidapet Teachers' College on 31st March land the Saidapet Teachers' Goldege on 31st March land the Saidapet Saidape

A new Secondary School — The 18th August was a red inter day in the annule of Koranda—a sobarh of Mayawaran A new Municipal Secondary of March 18th August 18th Au

Mr C. Kanaguasbai Cheitiar welcomed the citiaens and in the course of his speech, emphasized the increasity for the Koranad Branch of the School, as Sallyas, the weaving community, have not been benefined to the full extent by the educational facilities afforded by the Municipal High School, Hayavaram.

Mr K Seaba Aiyar, in proposing the long life of the institution, said that a branch was opened at Koranad not simply to remove congestion in the High School but to enable more of the Saliya community to be benefied by the higher education impressed upon the audience the importance of a knowledge of Faglish as a necessary medium of communication to a trading community and said that the citizens of Koranad should not rest content with having brought the school to their midst bat should try to reap the fullest benefite accruing, by sending almost all their children to the school. Then Mr N P. Arisbnassamy Algar addressed the meeting -Our Koracad citizens have been kind enough to invite as to witness the interown kind county to name of the Mindest and inter-ceting crisedony of the cpaning of the Secondary School in their locality. It has been their long cherished dream and desire—at last it has been realised and has now become an accomplished fact by the combined efforts of our Beadmaster and some of the city fathers of Korausd the chief of whom Me Chidembaram Chettar, a leading light of Koranad, has been, in season and out of season knocking at the door of the Hankeipal Council to vend aducation at the doors of those who needed

Mayararm Municipality would not have been what it is now but for Korarad. If we compare

what is called Mayavaram—in fact Mahadana and Pattanangalam Streets, with Kovanad, we must yield the palm to the latter, becanse it supplies more than the hoofs share of the snews of war, and with respect to the streegth of the populstic and the number of houser Kovanad beats Mayavaram hollow.

So, the Saliya community has had always a just grewance directed and levelled against Mayavaram unamuch as they have been paying the piper for earlying the long the saling and the saling and earlying the long the saling and the saling and complaints to be foreful and for the Moncipal Council to open its year to give education to those who filled the coffers were

I own that there are a number of Manacoual Town that there are no number of Manacoual Towns (School scattered round hersand The Manacoual Towns of the Manacoual Towns of the Manacoual Towns of the Country of the Manacoual Towns o

Now that Koranad has a Secondary School at is the look out of the citizens to see that it is strengtheed and maintained in its vigour and finally to secure for its local habitation befitting the traditions and manificence of the wealthy citizens of this place

Allow me, Grotlemen, to make an excess appeal to the Cholembrare Obstitute and other gentines of Kornand to see their way to add to this instituction as a fitting adjunct, Technical Classes of Carpentry, and Smithy and a Westing Olass, for it is industry and manual ishour that prosper a nation. Faging and month is about their prosper a nation. Faging would not be what it is but for Lancashire and Macchaetine, as you know that built the industry of Macchaetine, as you know that built the industry of the world and the other half of the industry of the world is due to make the prosper of the color of the world is due to make being brow witnost tools.

My one daty now is to storcine my secred fonction and prerogative as a Brabmia to presonance me benediction over this new born baby "May the Institution thrive long and be for ever prespectus." Mr Velswadam Mudahur, Tamil Pandit, then

spoke scatably to the occasion.

The Chairman alies a brief speech, declared the school open. M. B. Ry. M. S. bates Iyer Ari., Chairman Muserjal Courtel, proposed a rote of that to the chair. Finds and jets separatives distributed and the processings came to a close.

BOMBAN

Bombay Primary Schools -The following press note has been issued in the Education Department, Rombar -

Romber — The Breeter of Patler festivate on the receiving represented to Gavernment the deviately ty of relating the conductors under which attorness are used from the annual protection of one lath

for Grants in Aid of the construction and equipment of Primary schools This provision, which was first instituted in 1905 and is drawn from the recurring grant made in that year by the Covernment of India in aid of primary education in the Bombay Presidency, has bitherto been administered strictly in accordance with the building grant roles which require that the managers of the institution for which a grant is sought should first provide a hall-share of the total sum required. It is now pointed out that the District Local Boards, whose schools form the staple of the system of primary education in the Bombay Presidency, find it difficult to comply with this condition owing to the inelastic nature of their revenues and the increased recurring liabilities which the extension of primary education and the improved conditions under which it is conducted bare thrown upon them. This difficulty has resulted in the provision being only partially utilized, although the need for the better housing and enginment of primary schools is admitted on every side.

2. In these circumstances the Unrector of Police Instruction proposed that this annual provision of one lake should, as an experiment for the next five years, be distributed another the construction of the control of the control

3. Since the alors proposals were received, however, the Government of India have made liberal assignments for the general improvement which is a supposed to the general improvement of the proposed supposed to the control of the

entire approval of Government.

4. The Government in Council is accordingly

4. The Government in Council is accordingly

the building and equipment of schools should be

stended to Municipalities also, for he considers

that the ared of good achool buildings in Municipal

patients by the consideration of the considers

that the ared of good achool buildings in Municipal

patients by the consideration of the consideration of

5. The allotment of Rs. 12; lakhs will accordingly be devoted to the payment of free building and equipment grants, not only to District Local Boards, but also to those Municipalities.

which are in the greatest need of anitable school buildings but whose financial circumstances for not admit of their undertaking the construction of them on the terms laid down in the Grant-in-Aidrules

6 For the present the existing annual provision of one lake referred to above will continue to be distributed on the same terms as before. The question of drawing upon it for the perpendic free grants will be considered when the allement of its [2] lakes has been fully expended.

The Dream College, Poons.—The portrish in oil of the 10 Alby No. 1. Lo., its Practical of the Decean College and Director of Public Interaction in the Bimbay Freedence, was notwelf on the principal ball of the Director College, His Exercision College, Line Exercision College, College, Carriedon, Carriedon,

Zenaa Cestral School — The How bla Mr. Sharn-Director of Public Benerotion, presided recently at the text of Public Benerotion, presided recently at the Cenas Central School in the Dombay Presidency for Mahomedia erris in species of the Public Benerotion of Pub

In restylou, the Director of Pablic Instruction referred to a sperceible increase, in the accessor of Mahomedan boys in the Primary School the Central Division during the last injuries which be considered a healthy sign in the increase in the attendance of restriction of the considered and the control of the control of

Grant Medical College—The Bombsy Gereromont have issued a Frees Noos reparding the improvement of seaching and raising the Collegeof the teaching staff of the Grant Medical Collegeof the teaching staff of the Grant Medical Collegefrey consider that the present arrangements, governing the appointment of bomes y medical officers at the J. J. Hopptial and of paid minor officers at the J. J. Hopptial and of paid minor

professors, lecturers and tutors at the Grant Medical College, are defective, both on the score of lack of pniformity and because in some cases they are likely to operate to the detriment of the institutions concerned, by preventing the selection for these posts of persons, for the time being, best fitted to fill them to advantage in supersession of all nrevious orders The tenure of appointment of hono-rary medical officers at the J J Hospital will be for one year These officers will be eligible for re appointment, provided that no officer shall hold the same appointment for more than two consecutive years At present there are four minor pro-fessorships at the Grant Medical College, carryfessorships at the transmission context, carrying an allowance of Rs 200 a month each in future they will be tenable for one year only, the term being extended by the Government from year to year, if in their opinion this should appear desirable. The same rules will apply to lecturers and tutors as regards fellowships The objects of these are to encourage, after gradustion, further study in professional subjects and to assist graduates to proceed to higher degrees. The orders in this instance, remain unchanged and subject to the approval of the Surgeon General, may be extended from one to four years by extension of one year each.

ALLAHABAD

Victoria High School, Ghazipur - A meeting presided over by Mr J W Morris, the District Magistrate, was beld recently in the Victoria School, for the distribution of prizes to the students of the Government Victoria High School and certificates to the students of the Victoria Sanskrit Pathshala who passed the Pratham Parilaha examination last year. The gathering was large in spite of the bot weather, the District Judge, the Sub-Judge and the Deputy Collector being among those who were pre sent. The Headmaster, Babu Ram Gopal Mitra, in a short report dwelt upon the improvements effected in the school since its conversion into a Government institution. Then came the report on the Victoria Sanskeit Pathshala read by its Manager, Pandit Ramsaran Lal. He sketched the bistory of the Pathshala from its beginning and told how it at first formed a part of the Victoria School and afterwards was separated from it when the school was handed over to Government by the School Committee and how after passing through several Vicinatiodes established its reputation for efficiency and passed all the candidates that were sent up for the Benares Sanskrit College examination.

The Chairman community cammando.

The Chairman community chairman and different in few impressive world the Handmaster of the school, the Manager of the school and thou the institution subshits and the scholars of the the institution subshits and the scholars of the the institution of character building in scholars and prest related of character building in scholars and the teacher to indise in them a high time. It deed not the great value of genes as productive of deed to the great value of genes as productive of many beforeter and congratulated the scholars of the Victoria School on the prespect of shortly having a boset with an ample play ground which having a boset with an ample play ground which

ought to prove to them of great benefit Addressing the scholare particularly he advised them to be ob-dient and submissive to their parents and teachers to be true to their country and kyal to their king Referring to the unsatisfactory financial state of the Pathabala he advised the Manager to approach the local public in right earnest, and be boped that the belp be sought for the Pathebala would never be relosed to it by those who were in a position to help. Should this resource fail it would be time for him to consider seriously the case of the institution The boys of the Government Victoria School then received their medals and prizes from his hands and the students of the Sanskrit Pathabala their certificates and also prizes. Among the medals given to the boys of the Government High School were three gold medals from an endowment newly founded by the widow of the late B Surendra Naram Rai MA. LLB who died a sad and untimely death at the beginning of a promising career These medals termed burendra Medals are to be given appeally to the best Bhumthar boy passing ont of the Chaziper schools. The meeting then dissolved after a vote of thanks to the Chairman for the trouble he took in presiding over it

MYSORE

The Mysure Educational Association —With a vire to form as association of persons engaged and interested in education to Mysors a meeting was recently held in the Coverement High School, Bangalore, Mr. J O Tatt preseding There was a large attendance only the state of the Mysors and the state of the Mysors and Mysors a

Mr F B Sell made an interesting speech Mr Tait spoke to the following effect —Gentlemen I propose that such an institution as Teachers' Association or whatever you may choose to call it be formally started

Mr E P Rec seconded the proposition Mr K. Rarachandra Ros asid a few words supporting the proposition and the resolution was carried unanimously Mr Fuller proposed the establishment of a Secretary and Mr. Sell was appointed to the place.

Secretary and air, cett mas appointed to an epiate.

Next, a provisional committee consisting of
Mesers P R Sell, E P Rice, E P Metcalle, O
Krishna Rao, S Krishnassami Ijengar, C K
harayana Rac, B Dasappa and V Subrahmanya
Ijer, was appointed to draft the poles etc.

Mr Tais made the following concluding

I have not much to offer as regards the objects of such an Association as it? Mr Sell has said everything on this and discussed the question of the status of the teachers in Mysore I thought the I. G. would be here before the proceedings ended. I hope that the Provisional Secretary of the Committee will soon by able to forward the results of the meeting to us later on

With a hearty vote of thanks to the chair proposed by Mr C Krishna Rao, the proceedings closed.

Village School Fund .- The Inspector-General of Education in Mysore, baving sobmitted the Bodget estimates of the Village School Fund for 1913-14, the Government of Mysoro have passed the estimates, providing for an income of Rs 3,69,294 and an expenditure of Re. 4,12,761. The excess of expenditure over receipts, vis. Rs 43,367 will be met from the cash balance of about Rs. 46,000 at the credit of the fund on the let July 1913 Charges amounting to Re 30,872 have been added, with reference to the Inspector-General's remarks and this sum is for the purpose of meeting the cost of new schools and additional hands (Re. 28,632), the employment of a Demonstrator for Magic Lantern Exhibition work Rs. 240, and the increase of provision for furniture and apparatus, Rs 2,000.

COCHIN.

Scholarships—On the recommendation of Professor I. B. Wood of the School of Agriculture, Cambridge, the period of the School of Agriculture, Manon, 8. a.; that school has been a fine of year A scholarship of Ropers 50 per meson from year A scholarship of Ropers 50 per meson from years by the completion of the course of Miss Powns in the Midras Medical College, has been good Annual of Tricher, who has concessfully medical School for the profit of the Rayaparan Medical School for the School for the School son into the Medical College.

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interesting reading.

The main proposals of the Sanch's Committee are:
(I) that steps should be taken to preserve as well as
int before the sanch steps are the sanch's learning to the committee are to the sanch's learning to the Committee are the committee are

Eis Highness in 1088 for the encouragement of Scockert learning will also be available for the purpose. Over and above this, the Sirkar is prepared to make up any defice that might occur at the end of every year. The Sanskiri Library attached to the Edivarpus will be handed over to the School, and in all times are the second of Pandius in the School of the Company will be supported to the school of the School of this School of this School of this School of

of this School. With regard to the improvement of Malaysism literature the proposals of the committee are not wholly accepted by the Dorbar. Some of them, like the one for the starting of a model magazine, are considered by the Durbar to be impracticable, if not altogether beyond the legitimate functions of the State. The compilation of an Anglo-Malayalam Dictionary, the Darbar is prepared to subsidise, and a grant of Re. 5,000 is made towards it. The appointment of a permanent committee to advise the Durbar in matters connected with the improvement of Malayalam literature is also approved; and Mesers C. Achyutha Menon, T. K. Krishus Menon, and H. H. the 12th Prince are appointed to it. The amount of Rs 20,000 will be handed over to this committee who will spend it for the purpose for which it is intended under a definite scheme sanctioned and approved by the Durbar.

Lower Scondary School, "The Deran har field in this proceedings dated the 5th July 1913 that is future all Lower Secondary Girls Schools in the State hall be open to all cases and creds lake low; schools and admission of girls to the lat to defined Girls who want to contains their decisions of Girls who want to contains their decisions of Girls who want to contains their decisions of the school first corres should obtain special succion from the Director of Education for admission took but we will be succeeded to the school first correspond to the school first corresponding to the school first lower to the contains the school first decision under the Director of Education for the Strate Zero of the Mitaly since Plandis' posts in the Strate Zero of the Mitaly since Plandis' posts in the Strate Zero of the Mitaly since the Strate Zero of the Mitaly since the Strate Zero of the Mitaly since when the school first definition of the Strate Zero of the Mitaly since we will then to import the Mitaly since we confined to the Lower the Mitaly since we conding to the Lower the Mitaly since we conding to the school to the Mitaly since we conding to the school to the Mitaly since we conding to the school to the school to the Mitaly since we conding to the school to the s

Foreign Motes.

Professor Norman Collie—4. hh Assembly of Facollies at University College, Gozer-Strest, on the Vad instant, Professor G. D. Thane (Dear of the Reculty of Medical Sciences) and its Sir W. Itamay's successor an Director of the Chemical Laboratories was Professor Norman Collie—7, cannot record that appointment, "he said," without for the College of th

cessful issue during the session Professor Collin and Mr Patterson have investigated the effects produced on gases at low pressure by high potential electric discharges. As a result of these investigations, it is now established that mean and belium can be obtained when the electrical discharge passes through the hydrogen under suitable conditions. Other products of a hitherto unknown character are also obtained These startling results appear to indicate either a synthesis or a transmutation of elements, or it may be both combined. It is no overstatement to say that this will prove to be both one of the greatest discoveries ever made in chemistry and will possibly lead to a solution of the fundamental problem of chemical science-namely, the pature and relationships of the elements" It was stated that Sir William Ramsay had presented £500 for the purchase of chemical library books and periodicals Professor Thans also called attention to the baronetcy conferred upon Sir William Gwynne Evans, who he said, give the magnificent sum of £50,000 in order to promote the moorporation of the College in the Univer sity It was only now, after six years had elapsed, that he allowed the fact to be made known.

Students' Home in Cromwill Read — The Meport of the Minnigor Committee at 21, Cromwell Gord of 1912 13 records substantial progress in the and usefulness of the home. The total number of the control of the substantial progress in the same first the substantial progress in the same substantial progress in the substantial progress in the substantial substantialy substantial substantial substantial substantial substantial sub

LITERARY NOTES.

Several other histories based on a similar plan are now in course of production including the 'Cambridge History of English Literature the Cambridge Micheral History, and the Cambridge History of India'

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An emportant series of Cambridge Manuals is now bring issued at a shifting and aims at bringing now bring issued at a shifting and aims at bringing within the reach of all section of great subjects within the reach of all section and aims and aims accessed and bastory are but a few of the subjects owned by these volumes which in many cases are subjects overed by these volumes which in many cases are subjects overed by these volumes which in many cases are subjects over the subjects of the

The Cambridge University Fress will shortly poblish The Laterary Relations of England and Germany in the Seventeenth Century, "by Gilbert Wasterbouse Sa I formerly Scholar of St. John's College, Yambridge Tarks University German Scholar, England Lactorer in 'the University of the College, Yambridge Tarks University German Wasterbourner of the College of the Colleg

Messrs Heffer and Sons, Ltd., of Cambridge, have in the press, and will publish in the automn, a 'History of University Reform from 1800 a.b to the present time, with suggestions towards a complete acheme for the University of Cambridge,' by Mr A I Tillyard of St. John S College Cambridge

Mr F W Hirst, Editor of The Recommist, has written a volume entitled "The Sir Fance and other Essays which Measrs Methen will shortly issue, Is will deal with various problems of the day but more especially with Armsments. Tariffs.

Foreign Policy and Finance
The Syndies of the Cambridge University Fress
have undertaken the publication of 'The Cambridge
Technical Serva' (noder the General Editorshy of
Technical Serva' (noder the General Editorshy of
Department at the Polysichum Regent Stress
London) a new and important series of books on
technical subjects. It is indeeded to meet modern
to todate in every particular,
to todate in every particular,

There are now seventy volumes ready of the Cambridge Manuals of Science and Literature (Cambridge University Press, 1s not each) Of the batch of ten new volumes which have been received,

five deal with subjects of scorce: "Bees and Waspe," by Mr. O. H. Latter; "Subserged Forents," by Mr. G. Ch. Exter; "Subserged Forents," by Mr. G. Ch. Exterior: "The Talgrepshy," by Frd. G. L. Forenten: "The Talgrepshy," by Frd. G. L. Forenten: "The Talgrepshy," by Frd. G. L. Forenten: "A property of the Talgrepshy, and "Beyond the Arom," by Frd. John Cox. The other five volumes. though not so descript concerned perhaps with subjects included in the currently of the school heary, Latterature," Mr. A. H. Thompson's "Logish Monsteries" and Hr. Adms "Plato. Moral and Political Ideals." Small authoritative volumes of this improvement of the school heary, and the school heary in the subjects with which help can correct themselves may profablely in fact. it would be difficult to find more suitable and the school heart of the school heart of

The following educational books have been recently published --

The Property of Education. By E Helmes. 100 pp. (Contrable) 2s. 6d ont. The Demonstration School Record. No. II. Educated by J., J. Findley. 285 pp. (Simehous Cincreventy French S. care: Kenyley S. G. Contrabley, J. F. L. Contrabley. 195 pp. (Simehous Cincreventy French S. C. Contrabley). By J. V. J. Findley. 285 pp. (Harmonium J. F. L. Contrabley). By J. V. J. Contrabley. 195 pp. (Large Language Contrabley). By J. V. J. Contrabley. 195 pp. (Large Language Contrabley). 195 pp. (Large Language Contrable). 195 pp. (Contrable). 195

SCHOOL AND COLLEGE SPORTING NEWS.

L. M. School, Coineators.

The London Mission School Piver Annual Sports were played for recently. The stand, the stadents, and a few other gentlemen, European and Indian, in response to the Hird Invitation of Rev. Hasch witnessed the function. A few European Indian witnessed the function A few European Indian revoked in a tent by Rev. and Hirs. Hatch Mar, Fricher distributed the prices to the wincers. Mr. Moberly after congratuating the winners developed the support the superfusion of prorts and appealed to the Mrs. Hatch hatched the old bywas of the vanishes and after three losty character for Mrs. Fuscher, the gattering disperse.

Football League.

Engineering v Christian.

The Lesgue tournament played annually under the ampires of the M. O. A. Association commenced recently, the opening match being played on the Engineering College ground between the Engineering and Christian Colleges.

The play throughout was interesting to watch, the teams being very evenly matched. The Engineers won the match somewhat lockily, for it was only late in the second ball, when the Christians were handicapped by having to play one player short, Arthur having left the field owing to a damaged foot, that they obtained the only good of the evening.

The opening stehanges were decidedly in favour of the Engineers who stacked with great vigor, but Arthur arrested their progress before they got dangerons. The next few minutes such different and the steel of the

On the teams crossing over, the play took a faster turn than before. The Chrustian stated, we smore methodical than the Engineering attack, by the providence of the players of the player

MEDICAL V. PACHATTPPA'S.

In was fairly has nadvery evenly contested game that was witnessed in the natch between the forterm played on the Mrdical College ground. While the Medicose were in full strength, Pachlyspopwere without the services of two of their phoplayers Kambeaurs Bao. Ragarendars Roi. Palyers for the medical properties of the contest of the medical particles and the property usual country land of the property of the contest of the medical particles and the profess great credit on the latter exactly.

From the kick-off, the Medicoes by dint of some good passing transferred the play to the Pachair Jappa end. Evidently roused by this reverse on early in the game, the Pachayappa boys sot to work and the Medical goal was in imminent danger frequently. After this, the play was mostly confined to middled for some time. Undesmayed, Pacharyappa's still continued to attack. With the score sell, the play took a faster turn than before and though both sides alternately attacked vigorously, neither side was able to obtain the lead before balf-

to the team crossing over, Fachayappa's were seen to greater advantage than the reponents for nearly 10 windows and frequently had pressed the Reduces defining the repressed the Reduces defining the reduces and reduces and reduces a plendidly After this Subramanium the Pachayappa centre for the reduces and reduce

Hockey League

PRESIDENCY & CHRISTIAN

The second of the serve of matches or connection with the tournament we that between the above teams played on the Presidency Collin Francisco The play was somewhat one saded, the Practical with the player and the connembered areathe holders of the players must be better of the erchanger right to having must be better of the erchanger right to have the player of the player fairly weak in front of the best of the connection of the played fairly well. The Citration observation properties that the power of the played fairly well. The Citration of the played fairly well. The Citration of the player of

and Ananthanaraysnan, both of whom played really well at back proved to be their maintay in the defence in the front line Vencobe Rao was the only forward who did any appreciably good work occasionally.

EVEL PRRING . WPSTRY

This Lague tournament played annually under the suspices of the M C A A commenced recently. the opening match being played on the Engineering College ground between the Engineering and Wesley Colleges The play though not of a high order or even particulary last was none the less interesting to watch, the teams being very evenly matched The opening exchanges were decidedly in favour of the Engineers who attacked with great vigour for some time Almida and Vencata ramanjulu the two Wesley backs repeatedly cleared in fine style However about 10 minutes from the start, the Engineers were after all, rewarded. Ahmed Baig their opiside left scoring from a melee in front of the Wesley goal Evidently roused by this reverse the Wesleyans took up the attack and though Ramasami their centre forward frequently put to some very fine stick work he was unable to beat the engageering defence. Nearing the interval the play was somewhat level and the teams changed ends with the Engineers leading by one goal

On the teams evening over the play as in the closing stapes of the opening half was farly level for a long time of the opening half was farly level for a long time About half was through the second half Ramassams after cleverly eloding both Bell and Lanaman, the two enguesting backs made agood opening for his elder brother Ballah who equalized with a good shot. With the score one all, the play tock a faster torn and though both sides made great efforts to obtain the lead time conduct in a decay, the match thas ending in a dark, one road lead, the match thas

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The Educational Review.

The report of the Inspector-General of
Public Instruc.
Education for the year
tion in Mysore.
1911-12, dated the 4th
November 1912, and the

review thereof by the Government of Museure. is an interesting document. There has been during the year 'steady and anhatantial progress in education. The number of educational institutions rose from 4 267 to 4 478, and the number of numbs in them from 138,153 to 140, 214, and this notwithstanding 'violent outbreak of planns in almost all the districts." in some places so severe as to require the temporary closure of schools. In certain points the State of Mysore is in advance of the Presidency of Madras and the latter may well follow in the footstens of the former. Ope of these is the large number of Industrial (not that vague phrase, Technical, which may include anything) schools. There are twenty-two of them training 1,506 pupils in bandicrafts. Another point in which Mysors bests Madras is in its provision for Slovd classes. Pupils are trained in Sloyd work in so many as 49 centres and 2,164 students learn it. This is highly creditable to Mysore.

As Sloyd is a comparatively now "subject" in the School Currieolem and on account of other causes, the work in the Sloyd class is not correlated with that in the other classes; so the Government has ordered the Inspector-General to consider and report on the best means of 'co-ordinating it with other subjects so as to turn it to the best advantage?. 'We consider that no one is fit to be teacher of reience or of mathematics who has not undergone a complete course of carpentry and has not, besides, learnt to 'turn' metals and risks, as no one is a fit teacher of other

subjects who cannot draw well on maner as well as on blackboard A feeble attempt, we believe is being made at Saidanet to compel teachers under the training to learn a hit of carnentry : but unless the bulk of teachers realize that the old world-contrast between brain and brawn, brain-work and handwork is false and mischievous that in the child as also in the man, the brain grows in exact proportion to the pen of the hard in bandwork, as in the remote nest man's brain attained its characteristic enneriority to that of the gorilla not by means of his committing poens to memory but by means of his working his hand in ingenious new wave, the attempt is bound to fail. Slovd is not mere mechanical carpentry, such as the professional carpenter learne; it is not a series of exercises in sawing and chiselling and jointing, acalogues in the world of wood work to analysis of sentences, transformation of sentences and synthesis of sentences in the world of word-work. Sloyd is educational handwork, the presentation of a series of problems in the form of objects to be made by pupils ; it involves the translation of plans into wood-work, it involves a training in accurate measurement, the overcoming of difficulties by thinking as well as working. But even if Sloyd were badly taught, mechanical wood-sawing would be more useful to pupils, then mechanical word-sawing.

Mesera. Wyman and Sons have published Mesera. Wyman and Sons have published in Schools who is secondaryschools and it is a very interesticy appear. The idee underlying it is a thorough-going application of the old, old, educational moto, so often repeated as a cent phrase, but so saldo remembered in class work—Learging by doing. The Committee unbestiefing! con

demns what now obtains in most schoolsthe exclusive devotion to "the cultivation of the mind by means of books" To balance and complete this, the Committee require that attention must also be paid to the fostering of "those qualities of mind and that skill of the hand which are evoked by systematic work of the kind described in this report, we think that the time has now come when every secondary school should provide for the teaching of some branches of educational handwork, should make them an integral part of its curriculum, and give them a position on the same level with other subjects studied The value of such work, both as an element of a general education for all pupils and as a proparatory training for the special needs of some has been amply demonstrated by the wide and representative body of evidence which we have had before us." This applies with great force to India where we are an terribly examination-ridden, that it is almost impossible to take up any work in schools which does not lead to a pass in some examination or other It is remarked in the report that handwork has a social value, because it will tend to correct the depreciatory attitude towards work with the hands which no doubt vet exists in Logland In India, for several thousands of years, the man that has memorized books has been held to be immensely superior to the man that works with the bands-however far-reaching the benefits of such hand work may be-that this corrective, is absolutely necessary The Committee rightly insists on the correlation of handwork with other subjects. Already the school subjects are, in most schools, separated in water-light compartments, that work during one hour has no bearing on the work of other hours and it will be cruel to add one more compari-

ment to them, though it might be argoed, and that rightly, an hour's work in the workshop will be a welcome relief to the dredgery of the intellectual (?) subjects Carpeotry, the most important form of bandwork can very well be correlated with mathematics, with drawing with science l'aper cutting can be connected with Elementary Geometry, card board work with Geography and so on

As in the case of boys' schools, so in that
of girls' schools, Foglish
The reform of teachers have begun to

The reform of teachers have begun to Examinations in England protest external examinations The Association of

Headmistresses has passed resolutions, and proved by means of deputations, that external examinations exercise a deleterious effect on education and that in matriculation pupils credit should be given for the School Record in the case of pupils who have passed through a complete coarse of studies for not less than four years in schools inspected by the Board of Education, periodically examined by a University Board of Examiners and on the staff of which there is a fair proportion of registered teachers Here in Madras, the S S L C which was intended to bring about this very reform has so far as this particular object of sobbane examinations of their importance and their mischievons influence on teaching is concerned, proved a miserable failure This it will continue to be, so long as the Headmaster is a suspect, so long as the mark awarded by an examiner in the course of valuing \$00 answer-books in three weeks time in accordance with the half understood instructions of a chief examiner is feld to be infinitely more trustworthy of a papel's work than the average mark arrived at by a day by-day appraisement made during a period of three years, by the teacher or

teachers who have taught him. If teachers are all dishonest or incompetent to award marks, as educational theory assumes, can the chance shot if an Assistant Examiner remedy the evil? This asspacion of the teacher is abard, unworthy of the people that nothinkingly idolze the examination marks. It is highly true Madrast teachers met and protested against this gross injustice they softer nuclear.

We believe the Senate Committee that has been asked to answer this · What to do with question is going to meet Rs. 38,000 a year ? soon. We notice with regret. that some people are anxious to ear-mark some part of the amount for European professors and some for Indians. We should think that the race-question is entirely out of place in this question, where we are concerned with research work. In ordinary school and college work, it is but just that as between rival candidates of similar qualifications, an Indian, should in India be preferred to a European. But, here, where we go beyond the outermost fringe of college work, where we want such work as cannot be provided by colleges at all the question of race does not at all arise. It will be difficult enough to find men, let alone considerations of race. After this preliminary protest to clear the ground, we proceed to express our strong feeling that a very large part of this money should be devoted to the advancement of Dravidian studies. Northern India being near the Imperial throne, the languages of Northern India have received very much more attention than those of the South. The lunguistic survey has concerned itself much more with the dialects of the Himalayan regions than with the great Dravidan languages; in fact these latter are included at all in the linguistic survey under protest and as a kind of accident, as any reader of the IV Volume of Dr. Grierson's report knows. We therefore advocate that the bulk of this Government grant should be spent on furthering Dravidian studies. By furthering Dravidian atudies we do not mean the conservation of the Pandit. The Pandit is a very estimable person, with a vast deal of knowledge very essential to the unravelling of vernacular literatures, but such study is exactly

what ought to be done in Colleges-especially those devoted to the acquisition of Oriental titles. We hold that Colleges exist for disseminating what knowledge there is and Universities for discovering what knowledge there is not as yet. A University lecturer should be a research worker for discovering new vistas of knowledge and passing them on to the College for dissemination. Thus the University lecturer should investigate Dravidian Philology, discover MSS. and edit them, and so on. Under other circumstances we should demand that all this money must be spent on Dravidian languages, but it is a melancholy fact that modern Sanskrit scholarship is non-existent in Southern India. We never had a Buhler, a Cowell and so, while we are far in advance of every other Indian province, in every aspect of education in this one point of Sanskrit scholarship alone, we are really and truly benighted'. To remedy this a minor portion of this grant may be utilized.

So little does the science teaching in our Blood Parasites, colleges find its way into our souls (we know of s science B. A. of the old days who could thermometer) that not read a clinical a fairly large proportion of us believe that wind and bile and phlegm course through our veins and submit ourselves to the medication of the Vydian, all the more so if one of his shote in the dark happens to hit A few of us have a vague notion that some diseases, especially cholers, are caused by germs. It will, therefore, be not out of place to draw attention to the contents of interesting lecture on "Blood-parasities by Mr. H. G. Plimmer delivered at the Royal Institution on Friday, May 2, an abstract of which was published in a recent number of Nature. " A blood-paresite is a living being, vegetable or animal, passing part or the whole of its existence in the blood of another living being, upon which it lives, this being obligatory and necessary to its life. cycle. They have "an enormous distribution both geographically and as regards their hosts. For instance, during the last five years I have had the opportunity of examining all the animals (in the large sense of the word) which have died in the Zoological

Gardens 1 have examined the blood of 8,000 animals, coming from all parts of the world, and I have found parasites in the blood of 587 of them, that is in about 7 per cent, and in 295 species of animals, I have found them for the first time " Mr Plimmer excludes from his purview the microscopic plants, called bacteria, which cause among numerous other diseases, cholers, consumption, typhoid, etc., for these are not parasites but only visitors, for they do not live on their The spirochetes are parasites which cause such diseases as relansing fever, tickfever syphilis, etc Those causing the first two diseases are carried by, developed in and communicated to man by ticks and bugs The next class is formed by the worms called Filaria, whose embryos live in the blood and developed forms in other parts of the body They cause elephantiasis, Varicosities, chylpria and certain tumours Some of these live a part of their life in the mosquito class is called trypanosomes, which are trans ferred from animal to animal by flies, fless, lice and leeches One of the diseases caused by them is sleeping fever Then there are the malaria parasites, which again are communicated from man to man by the mosquito Many other fevers are caused by various parasites, the most deadly being the Leishmania, which cause Kala Azar, Delhi boil, etc.

Following the lead of the Madras Univer-The Academical sity, the Bombay University Year in Bombay has proposed to make the and Madras academio year begin soon after the annual burst of the monsoon and end in March The comparatively cooler part of the year-from July to March affords the fittest period for work and the hot months for rest Under the old system, whose abolition some reactionaries even now regret, the best portion of the year-November to Feb ruary-when real, good work can be done was irrationally devoted to a cessation of scholastic activity The Bombay University requires an attendance of 130 days for keeping the yearly term Madras demands a smaller number of days, every year, s.s., three-fourths of 150 days, but every college, so far as we know, finds it very hard to arrange for 150 days' work in the 2nd and 4th years, because the Registrar's

office demands the attendance certificates of candidates for the University examinations to be despatched practically 20 days before the end of the term The loss of 20 days' attendance merely to suit the convenience of the Registrar's office is one of the evil infigences exerted by examinations on college work This evil can be remedied by a simple expedient which we commend to the notice of the Syndicate That is to cancel the present application forms which are sent three months before the examination, and to substitute for them a list of numls likely to appear for the examination signed by the Principal The day before the examination, each Principal may send to the Superintendent of the Examination, before whom his pupils are bound to appear, a list of his populs who are unfit to sppear by reason of short attendance or lack of progress Some such simple expedient will remedy a real evil which every Principal

Louise Pound writing in the Modern Language Review on 'blending' Word coinage in as a mode of word-forms. English tion in English, makes some interesting points Thus scurry is a cross between scour and hurry Flaunt seems to blend the elements of fly, flout, vaunt, etc.; so slump is mentioned as having been built out of slip, examp, plump, thump, bump, etc. Cangle meaning to quarrel, wrangle, haggle, cavil, results from cavil, quarrel, scrangle, jangle, haggle, etc. Chelp, meaning chirp, squeak, yelp, clatter, is compounded of chirp. cheep, chatter, and yelp These words have been happily called 'portmanteau forms' In discussing this question, the writer points to the permanent association of certain consonant combinations with certain fundamental notions thus so which is the initial part of squeeze, equeich, equert, equirm (whatever the nitimate origin of these words, conveys to English minds the idea of violent motion t and sh, the final sound of crush, crash, splash, wash, gush, dush, squash, mash, dash, rash, rush, suggest the idea of continuous motion and leads on either to the coinage of new words or extension of the meaning of old once An analysis of the roots of the Dravidian languages shows that this phenomenon which is

noticeable in English which is the last of the innumerable forms which a German dialect or even a hypothetic Indo-Germanic larguage has assumed, is a fundamental guide in the tracting of the roots of the Drawidian languages. Thus associated with the sound of larguages. Thus associated with the sound of larguages are considered with the sound of d. But Devaidian philotogy has yet to be investigated and a study of it by one who is trained in modern Comparative Philology and more especially the latest developments of Phonology and the laws of sound-change in likely to enrich linguistic studies and enlarge the outlook of the philologer.

Some of our readers may not have heard The Smithsonian of this institution, which Institution has for more than 60 years

has for more than 60 years exerted a powerful influence in the development of science in the United States. It started with a bequest of Smithson in 1846 of 515,169 dollars, and other bequests and other sources have now raised its permanent fund to nearly 1,000,000 dollars. This is supplemented by sundry pieces of real estates and various other contributions. The income is devoted to making researches in American Ethnology, Astrophysics, Geology, Biology, to publishing books, enlarging the National Museum, etc. The report of its work for 1911 contains in a huge appendix brief, accounts of scientific discoveries in various directions, reports of investigations by collaborators and memoirs of a general character or on special topics. The subjects treated of can be judged from the plates which deal with the gyrostatic compass, Radiotelegraphy, Multiplex telephony, Invisible light, Artificial precious stones, Legal time, Geologic work of ants, the great horned owls, the Passenger pigeon, colours of birds and insects, Birds in flight, Native plants of new Mexico, Tree ferns, Mexican manuscripts, Kabyles of North Africa, Chinese architecture, Lolos of Kientchange, etc. We cannot, of course, in these columns discuss the numerons interesting scientific discoveries here dealt with because they deal with the more recondite pertions of science which interests only the specialist. The geenst interests only the specialist. The general reader will read with interest the articles or srifticial precious stones, legal time in various countries, and profitable and freit-less lines of endeavour in public health work.

M. Guilbert has introduced a method of foretelling the weather, The Guilbert which is quite different method from and simpler than that of forecasting followed in the Indian the weather. Meteorological Department. M. Guilbert observes the speed and direction of superficial winds and the consequent variations of pressure. He regards winds proportional to the gradient as normal, that for those displaying more strength than the gradient would warrant, cause a barometric rise and those abnormal by default a barometric fall, according to the Chemical News. a determining of these mere movements of barometric pressure allows the forecast of the future of equalls, and also makes it possible to know if such or such depression will be filled up or hollowed out, and if consequently the wind is going to increase circumstances, or decrease. In certain winds by when the abnormal surround a centre of depression, this centre is completely destroyed: tempestaous windsand thus the method foretells-are followed by a perfect calm in a delay of twenty-four hours, sometimes even in twelve hours.....The distinction of the winds designated as convergent and divergent is not less important-The former have a tendency to contract the depression, to puch it back, they constitute a resistance of the invading march of the cyclone or tend to destroy it; the latter on the contrary, are attractive winds; they conatitute centres of attraction of less resistance; they determine the fall of the barometer and

sometimes even a cyclone."

The Educational Review

A Monthly Record for India,

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THE PLACE OF PHONETICS IN THE TEACHING OF ENGLISH IN INDIAN SCHOOLS*

IN recent years much attention has been directed to the subject of teaching Foreign Languages and great improvements have been made in the methods adopted The Director Reformed method of teaching Foreign Languages has come into promisence, and specially important in India is this method as applied to the teaching of English The chief reform which has taken place in this country is in the direction of emphasis ing the specke speech Pupils are now being taught not chiefly to write English but

to speak it and a great deal of importance must necessarily be attached to the correct sounds of speech Assoon as a pupil attempts to use words of a Foreign Language he is met by the difficulties of new sounds-sounds which he has never encountered in his own language. In order to utter these sounds ha needs to be told how the new sounds should he produced. This is the work which the science of Phonetics undertakes Phonetics deals with the organs of speech, and attempts to show how these organe must be used in the pronunciation of sounds. The importance of the subject is indicated in the Board of Education Circular, No 797, dealing with the ambiect of Methods of Teaching Modern Languages

"It is fortunately no longer necessary to insist that the utmost importance should be attached at the earliest stage to the mastery of the sound system of the new language; this is universally admitted to be an essential preliminary to effective progress Experience shows that the work of the teacher of any living language is much facilitated if he has a thorough knowledge of the position and movements of the several organs of speech proper to the production of each sound, and every teacher of modern languages should make himself fully familiar with this knowledge not in order to teach the technicalities to his pupils but so as to be able to use it to assist them in overcoming their difficulties

A paper read by Mr R W Ross B A., Vice Principal, Teachers College Saidspet before the South Indian Branch of the English Association, Madras

In the case of very many children, especially those who begin the language late, it is not safe to depend on imitation as a means of securing a correct pronunciation-" a pronunciation according to the usages of the best companies." It is especially necessary in many achools that teachers should be able to give systematic instruction based on scientific knowledge owing to the pupils' extremely imperfect power of correctly using the sounds of even their own native language." The need for a study of Phonetics becomes even more urgent when we consider the processes involved in Pronunciation as outlined by Wyld in his book. The Historical Study of the Mother-Tongue.

"Before a word is pronounced the organs of speech have to perform certain movements and take up a certain position. These movements and positions give rise to certain muscular sensations and when the sound is uttered certain physical sensations are produced upon the auditory nerves. Besides these physiological processes certain nervous impressions are recorded in the consciousness which help to form memory pictures. Thus there are memory pictures of the sound itself and of the muscular sensations and the position of the vocal organs. These memory pictures of sound, movements and position are the psychological processes which accompany the utterance of every speech sound. and until they are formed the sounds cannot be reproduced. Naturally, first the unaccustomed movements are performed with difficulty, but with practice the memory pictures become clearer and more definite until the sound can be reproduced accurately. It will thus be seen that the seriousness of acquiring the habit of wrong pronunciation cannot be

overestimated, because each ropeated utterance of the wrong sound makes the inemory picture of the movements and position clearer and deeper and increasingly difficult to eradicate. This also explains the difficult what teachers have of correcting wrong promunciation acquired in the early years of their school course. They have obtained memory pictures of the sounds and positions peculiar to their own language, the muscles have become fixed and it is difficult for them to experience the new muscular sensations which are necessary in grappling with the new language."

Mode or PROCEDURE.

We may all recognise the importance of the above remarks and realize that very much is necessary in the direction of improving the pronunciation of the popils; yet at the sam time as there seems to be a good deal of hais ness with regard to the method followed it teaching the subject of Phonetics, I think i desirable to give a brief outline of a possibl method of teaching the subject.

BREATHING EXERCISES.

The first thing to consider in the means by which sounds are produced. That implies a study of the vecal organs and of the process of breathing. Speech is often defective because breathing is defective, and therefore the importance of breathing exercises caused be overestimated, for, by the ejection of the breath the vocal cords are made to vibrate and by their vibration sound is produced which is modified by the throat, noes, mosh, and lips. Each sound is the result of certific definite actions or positions of the vocal organs by which the sound passage assumes certain definite shape. Breathing exercises should therefore be regularly practiced, for

until the pupil can control his breath he cannot read or speak correctly. In the lower forms, it is desirable to devote a few minutes of every lesson to breathing exercises until the pupils show themselves capable of regulating their breath. Time will not permit me to mention the various exercises which are indispensable to correct breathing, but the asbipect may be studied in Burrell CLEAR SPEAKING AND GOOD READING, (Publishers Longmans Green & Co), and Hulbert Longmans Green & Co), but Hulbert beautiness of Vonce Procuportions (Publishers

Novello & Co.) When a teacher speaks to his pupils slowly and clearly the organs of speech which are apparent to them are usually the tongue, the teeth, and the line Recognizing this fact the teacher will ask his pupils to direct their attention to the position of these organs in the propunciation of certain sounds He will first of all take the simple sound common to most languages which is represented by the symbol "a " He will call attention to the position of the lips and the flat position of the tongue He may then proceed to give the sound "1 " and will make clear the altered position of vocal organs From that sound he may proceed to the sound "u "and will show the rounded position occupied by the line. As the tongue in the pronunciation of the "n " sound is not visible it will be necessary to tell the pupils that its position has changed and that the tongue instead of being raised at the front as is the case in giving the "1:" sound is raised at the back and he should seek to enable the pupils to gain control over the movements of their tongue by rapidly changing from "1;" to "u;", maintaining a fixed position with the lips As the pupils are not always sure that they are imitating the teacher, they should be supplied

with band mirrors so that they may test the accuracy of their imitation After the pronunciation of the above three sounds the pupils may be taught the manner in which the "1" and the "w" sounds are produced In the propunciation of the "1" sound the tongue is raised at the front as high as it will go, and in the pronunciation of the "w" sound it is raised at the back to its ntmost The transition from "1" to "1" and from "a" to "w" is quite simple. but the pupils must be taught clearly the difference which exists in English between the sounds, because there is a great tendency amonest Indian numls to substitute the consonantal sounds for the vowel sounds, e g, THE IS often substituted for IT and WONLY IS substituted for only The 'w" sound is always a difficulty because it does not exist in the vernaculars, and the best way to secure a good pronunciation of the "w" sound is to exaggerate the rounded position occupied by the lips The series of vowels represented in the "a "to "1 "series is known as the "Front Series" because the tongue is gradually being raised at the front, and the "a "to 'n "eeries is known as the "Back Series" because the topone is gradually being raised at the back. The vowels occurring in the Front Series are a R. F. e. e 1, 1 as in the words "ART, AT, AIR, END, EIGHT, IT. BAT" The vowels in the Back Series are "o "asin ox "o" as in ought; "o" as in SOFA, "u" as in roor, "u" as in roop. The nunula should have regular Phonetic Drill in these sounds and practise the I copt and Back Series until they are conversant with them Special attention must be given to the vowel sounds which do not occur in the vernaculars The sounds " w", 'o," "o: " z: occur and the sounds represented in the

vernaculars by "o" and "o" are, generally in English diphthongs and should be pronounced as "ei" and "on"; as in the words " BAIL" and "No." Other vowel sounds peculiar to English are the unaccented obsoure vowel ... o ... as in the word apport eas in the word BIRD: "oi" as in the words "nov and enough." It is a good thing for pupils to propounce these sounds in chorns provided sufficient privacy can be secured, for the renetition of the sound by the whole class tends to fix it in the memory of the popils and a good teacher should be able to discover both by looking at the pupil and by hearing him whether he is uttering the correct sound or not.

In the treatment of consonantal sounds much attention should be given to detecting the difference between the voiced and voiceless consonants, and much practice should be given in sounding the various pairs of consonanis together such as "p" and "b." "t" and "d". "f" and "v". Considerable attention should be directed to the task of producing the sounds of "f" and "v", "t" and "d", o and 0, as these sounds are new to the vernacular, The position of the tongue for v and θ and for the sounds "f" and "v" must be carefully noted and the slight explosive sound in the pronunciation of "t" and "d" requires particular attention. The difference between " v" and " w " must be clearly emphasised and contrasted with the sound in the vernaculars. Another consonantal sound which is frequently mispronounced is the sound of "z" which is often given the sound of "s", because it is frequently represented by the symbol "s": s. g., in the word EYES, "z" is the final sound and not "s" as occurs in the word "ICE." Another consonantal sound which is often forgotten is the sound of "h." Because it is

sometimes omitted as in the words Hour and Hers and moscus, pupils frequently omit itin such words as Hours, Manp, His, Ca-Special combinations of consonants are also important, e.g., "str.", "aw,", stretch, awet. Punyers, Source

We are all aware that English spelling is very unphonetic and one of the difficulties of correct pronunciation results from the neculiar orthography which is the possession of the English. The International Phonetic Association has drawn up a system of phonetic symbols which, if properly understood, enable any one to pronounce a word with accuracy. In the first year of teaching English it is very desirable that the pupils should refrain from learning anything which interferes with correct pronunciation. There is no doubt that the ordinary orthography acts as a deterrent in acquiring good pronunciation, and for that reason it should be avoided. At the same time, it is too much to expect a pupil to be able to remember all the sounds be has heard; and therefore, although writing should occupy a very insignificant place at the beginning of the study of English, it is very necessary that whatever writing is done should be in phonetic symbols. The objection brought against this is that there are very few books written in phonetic script and that therefore the pupil is unable to read English at all. Personally, I do not consider that a disadvantage, for it is one of the defects in the teaching of English that pupils are made to read English before they can talk it and before they understand what they are reading. A system of teaching English which keeps books out of the hands of pupils for at least the first few months in their study of the subject is to be welcomed. The only symbols of the sounds nitered by the pupils

abould be the phonetic symbols which the pupils themselves with the help of their coacher have written It is a good exercise for the pupils to group words according to the sounds which are common to them. After teaching the sound "x" the pupils should group all the words together which contain that sound 4 g, RAIS, CHAIS, THER, PAIE, after teaching the sound "f," let them group together the words which occur in course of Conversation, such as, INI, JACT, FRIT, FAITHER

Another objection brought against phonetic script is that it apples the pupils spelling We have to admit that the pupil must sooner or later make use of the ordinary orthography. and it is surmised that those who have learnt to write in phonetic symbols will make some fearful howlers when they write the ordinary symbols This is one of the fears which mitigate against the teaching of the phonetic script, but it is not a realised fear. The subsect is so new in this country that few can definitely say that phonetic symbols lead to defective spelling, whereas those who are conversant with the subject can definitely say that the spelling of pupils trained by the new method is not inferior to that of those trained under the old method. If the teacher in his transition from the phonetic script to the ordinary script is careful to point out to the pupils the difference between correct pronunciation and correct spelling and to call attention to the appearance of the word, the pronunciation of which has long been lamiliar to the pupils, the emphasis placed on correct spelling by the new method will be much greater than that accured by the old method It is a good exercise for the pupils to write in phonetic symbols a sentence or two in order to test the accuracy with which they bear sounds. But after the first year the phonetic script should be sparingly used and emphase placed on the ordinary spelling Pupils should, of course, retain their knowledge of the phonetic symbols and whenever the teacher weakes to discriminate between sounds which seem to be somewhat alike, the difference can be well illustrated by writing the sounds on the black board in phonetic script, eg IRWS, TOTES, FRICE, PRISE JU 2, JUI 52. DESS. PRISE, PRISE

When the speech sounds have been correctly nttered in single words, attention must be directed to their utterance in conjunction with other words, otherwise, an artificial pronunciation will be cultivated , eg , the pupil learns the two words separately 'that' and 'book', but often in rapid speech we do not wish to emphasise the word 'that' and we pronounce it simply as get This leads us on to the question of stress and intonation in anecch Stress depends upon the degree of force with which the air stream is expelled from the lungs, and it is the variety of stress in the English language which contrasts so strikingly with the absence of it in the vernaculars As we all know, the subject is one of exceedingly great difficulty and it is useless for any teacher to attempt to define the rules of stress Knowledge of the subject can only be learnt by the use of the word or words in speech and by reading phonetic scripts of passages with intonation curves such as have been prepared by Daniel Jones, Rengman, Smeet, Great and Llayd Smeet in his New English Granus discusses the anbiect of stress with his usual thoroughness

amples of stress with his beaut into our measure. This grouping of words together its sometimes called breath grouping and implies that a certain number of sounds are uttered with each expiration and that the breath must be carefully sustained to the very end of the

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phrase. The maccented syllables must not be slurred over, but some of the articulatory movements will be reduced; e.g., man and mannements; craise and comissmas; par and sunday; youd and oxyond; land and BLAND.

Intonation is a question of pitch and alterations of pitch are produced by tightening the vocal cords for a high tone, loosening or shortening them for a low tone. How important this subject is every one knows who has listened to school boys reading aloud their texts. As a rule there is no variety in intonstion, but a monotonous level is maintained throughout and very little meaning is conveyed by the pupils' effort. It is very often difficult to discover from the reading whether a question is being asked or a statement made or an exclamation expressed. Although the passage read indicates that a certain character is speaking either solemnly or jokingly the punil usually ignores the mood of the speaker and reads the whole passage without feeling and without expression. So much variety of meaning can be conveyed by the tone of the voice that it is essential for good reading and speech to develop the tones of the boys and to show how various moods and emotions can be indicated by raised or lowered pitch of the voice.

PROSONY.

The bearing of all this on the subject of English Procedy must be evident. Without a Knowledge of sounds, accentantion and hymne, poetry cannot be appreciated and scansion cannot be attempted. Because the subject of phonetics has not received very much consideration hitherto, the subject of scansion presumably has been neglected. Yet how is it possible for a pupil to appreciate poetry, and

to read it with appreciation without a knowledge of the metre employed? As Bradley observes in his book THE MARING OF ENGLISH. "the sound of a word has a real intrinsic significance; for instance, a word with long vowels which we naturally utter slowly suggests the idea of slow movement. Repetition of the same consonant suggests the repetition of movement; slow if the vowels be long, and rapid if the vowels be short. The vowels that are produced by the passage of the breath through a narrow opening, such as, i and i, are suited to convey a notion of something slender or slight, while a full vowel, such as u, suggests a massive object. A syllable ending in a stopped consonant, especially an unvoiced one, like "p", "t" or "k", preceded by a short vowel, affords a natural expression for the idea of some quick and abrupt action. Bequences of consonants which are harsh to the ear or involve difficult muscular effort in atterance are felt to be appropriate in words descriptive of harsh or violent movement."

Such explanations as these are unintelligible to the pupils who have not studied the counds of Englash and therefore a great deal of the profit that may be derived by a study of poetry is denied to them.

THE HISTORY OF SOUNDS.

When the pupils have studied the spokes language of to-day a necessary part of their training in English in a study of the history of the English language. Pupils should know something of the changes which have taken place in the development of English and the changes in words correspond to a change in sounds. Once phonetics has been studied, phonology may receive some attention and not be relegated to the college courts The study of the history of the language will eplarge the pupil's views of the living element in a language and perhaps incidentally teach him to recognise the folly of trying to limit his own language to the written forms of past If this fact were recognised there would not now be the divergence between the written and spoken language of the verna culars, for on the analogy of English the written forms would change with the spoken forms and be a record of the spoken language of to-day A stady of sound laws is the stady of the observed facts of propagation of a given language at a particular period Pap is are interested in the subject and a comparison of the English of to-day with that of previous centuries together with a contrast with the Arvan forms of the remote past cannot fail to promote interest and stimulate further inquiry

PHONETICS AND REFORMED SPELLING

What is to be the attitude of the teacher of phonetics to the subject of reformed spelling? He is conscious of a radical difference that exists between phonetic spelling and the orthodox script. At the same time he is particular to teach the difference that exists between the two and is insistent on the latter Our spelling is out of date and no longer represents the sounds as progonneed to-day Printing has done much to fix the standard of spelling and has checked the progress of the written language There are those who wish to reform spelling and to make it phonet The teacher of Fuglish, however much he may be in sympathy with the movement. nenally feels that it is impossible and inadvisable for him to teach reformed spelling until there is a concensus of opinion as to what extent reform is permissible. The school that teaches the reformed spelling will probable find that its popile have a difficulty in obtain-

ing situations and therefore until there is a general country in favour of certain reforms it will find it necessary to adhere to the old spelling Yet surely some reform on a small scale is nossible and the example of America in gradually year by year introducing a new spelling of a few words may well be followed Is it not possible, by means of school textbooks to gradually introduce a new snelling of certain words which shall be accepted by most people and could not the University be the power to decide which words admit of an alteration in their spelling? The amount of time that papils now spend in cramming up an artificial spelling is enormous and this time would be saved and more profitably devoted to developing a genuine lasting love of literature, and an acquaintance with the savines of the greatest of our literary artists if reformed spelling were considered desirable and generally adopted

AIDS TO THE TEACHER OF PRONETICS Charts of the vocal organs such as are published by The Cambridge University Press and models of the organs of speech are useful for pupils of the higher forms There is also a series of sound charts prepared by Messre Friedrich Ranach and Daniel Jones and published by Dent & Co of the position of the tongue occupied in the pronunciation of vowels and consonants appear in most of the books on phonetics and a list of these books is published by the International Phonetic Association reference to the subject of the teaching of phonetics is made in the Monrey Language Traceino, a magazine published by A & C Black, Soho Square, London W., and teachers of Foglish in India will always derive much benefit from a perusal of its contents An Loglish Phonetic Dictionary, prepared by Michalis and Jones, has recently been published and is worthy of a place in every school library. Another aid, especially useful in schools where English born teachers are not to be found, is the gramophone. Teachers experience difficulty in always pronouncing the same word in the same way and they certainly find it rather monotonous to be continually operating before their pupils. Now, in a gramophone the advantages are obvious, if the records have been well made. There is a breath of English atmosphere, intenstion and pitch about a gramophone which is not always apparent in an Indian teacher and it certainly can minister to the delight and improvement of the class without necessitating any expenditure of energy on the part of the teacher. Of course it has its limitations and it can never take the place of a teacher, but it can supplement his work. Mr. Daniel Jones has written a book entitled Phonetic Readings in English, published by Carl Winter, Heidelberg, and gramophone records have been prepared of the whole of the accodotes contained in that book. They belong to the series known as the English Educational Records and may be obtained from any agent of the gramophone company. One word of warning, however, must be uttered to the effect that the pronunciation represents that of the educated classes in the south of England and there is grave doubt as to whether that pronunciation is typical of the educated classes of England and Scotland. The difficulty of fixing the standard of pronunciation is always felt and the teacher of phonetics will have to decide which standard he considers it desirable to adopt and having once fixed that standard he must endeavour to abide by it. or otherwise there will be "confusion worse confounded."

MEMORANDUM ON MODERN . TELUGU

P. T. SEINIVAS AIYANGAB, M.A. Principal, A. V. N. College, Virag. MODERN Telugu is the Telugu now spoken by the educated classes of the Telugu community living in the Telaga country. It is, for all practical purposes, uniform except in the border-districts where contact with other languages has affected the idiom. As a general rule a writer ought to use in his composition only such forms and such vocabulary as occur in the polite conversation of educated Telugu gentlemen and ladies of the upper classes. It goes without saying that the so-called volgar forms of the uncultivated dialects as well as obsolete grammatical forms and expressions should be avoided, except when they are used in proverbs, etc., if it is the aim to secure as many readers as possible. It is allowable to use not only Sanskrit words but words from other languages if they are current. 'Coined words'

A few points are mentioned to indicate what is meant by the brief description given above. Forms of Words.

should be avoided.

(1) The written symbols should represent as far as practicable the sounds of the word as heard in careful, deliberate, formal uterance. The word is the unit of composited and the state of the state witten separately except in compounds in which Sandhi is compulsory; e.g., debballad (Tagyer's), 1 xiniyyi (wrtens). In other places Sandhi is unnecessary, absolutely in books written for young children, e.g., chi kkya (ND Tros) i chi ishira (ND &D) comitta (ND NT) continuation of the state of the st

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- (2) Half anuswara () and R (∞) should be given up
- (3) The vowels in words like claks (Jul) tshilaka (చలక) marudulu (మనుమలు), in modern Telugu, are due to the Law of Vocalic Harmony and are therefore right, though in an older stage of the language the forms were d fferent from what they now are
- (4) The final vowels in such words as vadine (sa %) may be written according to the best usage with which the writer is acquainted
- (5) The medial and (in some words) the final consonants may be either voced or unvoiced, eg, vetiki (38%) or vediki (38%) and tshitaku (చితుకు) or tshidaka (చిడుకు)
- (6) When two consonants in a word are assimilated owing to the disappearance of the intervening vowel as in mappu (ಮಸ್ತ್ರ) the older form marapa (మరప) should not be used But forms like lägaku (U-XS) kālalo (KUU-) should not be written lakku (, x ,) and kallo (for) As a rule if the restoration of a lost vowel looks pedantic, it should be dropped, eg, untsu (ಅಂಸು) not nuutsu (www) radda (zw) not rainda (zww).
- NB-No rules can be laid down for guidance in such cases. It is better left to the discretion of the writer
- (7) The augments 'y' (あ) and 'n' (る) have almost disappeared in modern Telugu, eg Old Telugu adıya ? (ಅರಿಯಾ) - Modern Telogu adm? (em?) Old Telogu danilo nannadı (ರಾಜಕ್ ಜಸ್ಪರಿ) = Modern Telagu danio un(na)di (mper daja da, doa)

- (8) The variants in mmu (K) mbu (om)of words ending in mu(so) as gurrammu garramba, for garrama should be avoided as well as variants of other words when they are out of use
 - (ع) The ran such words as kasgu (عربة) pratti (| 5 B) has disappeared.
- (10) Foreign words should be written as far as practicable in the way foreigners pro nounce them unless they have been already mod fied in the current usage. (Eg), rulu (రూలు) 10dda (రోడ్లు), kal ktars (కరెకరు) not kalaktera (for Lo)
- (11) The compensatory length of vowels should be fully represented eg, kula (కూరా) = Old Telega kudan (కూడక్), teālā (マッ), ane (ロオ) = Old Teloga anda (ゅうな), aite (コる) = Old Telaga ait (iv) ಕರುಣ (ಐ೦ಜಿನಸ್)
- (12) The length of a vow 1 due to emphasis should be fully represented, ado (변경); adī nikalamu (ఆదీస్కలము), amā (వినా , inkā (20m)
- (13) The length of a vowel due to the dropping of the conjunctive particle u should be represented as in vadu nepu (వాదూ "నేనూ)
- (14) So also the lengthening of the consonant as in vadannu (www. 12)
- (15) In case the letters of the trade tional alphabet do not accurately represent the sounds of the modern spoken Telugu. some modifiers may be used Declerator

i Obsolete pierals like vändre (عمورية). kālela (T 600) ndala (Gotton) are to be

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avoided. Valle or tapille (బార్లు or బాంస్లు). kalle (కార్లు), ille or indle (జర్లు or ఆంస్లు), are

to be used instead.
2. Pronominal forms like, enu (212), emu

(విము) are obsolete. Nenu (శకు) and memu (మము) alone are current. Nanu (జామ) and

māma (α-κω) helong to low-caste dialects.

3. Honorifie forms like ayana (α-αά), τατυ (π-ά), εάτυ (π-ά) which Old Tellogu ignores are to be used when required. Modern Telugu distinguishes between amma-

audeen Telego distinguishes between ammagäru (ఆస్తూరు) and ammaväru (ఆస్తూరు); attaggru (ఆగ్రూరు) and attavgru (ఆస్తూరు); rācuņšru tehinnavāru (బాజూగరు రేశ్లూరు) and ā pillalu tshinnavālu (or rāpilo) 19 కి.ప్లలు

చెక్కలాక్ల (కాండ్లు)]. 4. The modern declension of vada (కారు) is vādini (కాండిసి) or vanni (కాట్టి), vadi (కాండి).

vadiki (w.23), etc.

5. Vati (w.2), vaniki (w.23) should not be used as the genitive and the dative of

be used as the genitive and the dative of the neuter plural; in their place va(i (xrd), vajiki (xrd) should be used.

6. Such forms as guralo, goralo-guraloko, goraloko (რელი, რილი, რილი, რილი, რილი, რილი, რილი, corrent; however, the forms gurramola, gurramolako, gurramolako, gurramolako (რეტ რილი, რიტობი, რილი, რი

7. The so-called case suffixes ponts (2006), kole (100), kinai (120), or kunsi (120), guritshi (1000), kürtshi (1000), etc., are all obsolete.

8. Teheta (25) should be used instead of tsbetan or taken (26% or 3%), and to (64) or tide (37%) instead of 160 or 1842 (37% or 34%)

9. Such genitive constructions as a desamuna-varu (ಆ ಡೆಕಕುಸಬಾರು). zgtsheppinamáta (ಸ್ ವಸ್ತಿಸಬಾಟ) are obsolete.

10. Nuntshi (≾00) may be used as well as unpli (≾03). Both of them are to be added on to the Guitive (or the Crode) form c,g, akk da (or i) nunplice akk da (or i) nunching (⟨4F₁ − 46 or 3) ±03), or (⟨4F₁ − 46 or 3) ±03), or (≪F₁ − 46 or 3) ±03).

11. Kēsi (*\$1), kössramu (***¢×±*), kössmu

(కినమ), valla (జల్ల) instead of values (జల్లు) may be used.

12. Yokka (యుక్క-) is modern; but it is connection with

nonecessary to use it in connection with every possessive form.

Conjugation.

1. Kettedunu (** ひかか), kettonu (**ショ) are obsolete either as present or future forms 2. Kettudun (**かめる), kettau (***ビー)

kottinan (** gre"), kettangan (** 150%*) are obsolete. 3. Kottatsun, kettusu puptini (** 151%*).

్టుముమంతని) are obsolete. 4. Kettitiva (కాట్రవా) (as antiparetive) kettuduna? (కాట్రమాగి) (as an interrogative)

ktituduna? (** www.?) (as an interrogative)
are still current.
5. ans au emphatic particle, e or é as an
interrogative particle as in nuna (***) ... I

interrogative particle as in nena (%) — I myself and revel (or %) — did you not come? are obsolete.

6. Kottuta (్లుట), kottatam (్లుట్). kottadam (్లుకప్), may be used.

7 The following forms are current -Kottatanzāna (కాటుకుశ్వామ), Kottināna (and a Kottana (area) Kottuiana (ాట్లారు), Kettanu (కాట్లు) Kettuledu (కొట్టులోన), Kottsdamuledu (కొట్టడునులేను) Kottagalann (** koteza) = I can strike, Kottalenu (tola) Kottadāniki (torpš), Kottudanu (్ ట్లుజన్)=I should or would bave beaten, Kottu (1º to), Kottandı (1º tool), Kottaku (\$150), Kottakandi (\$1502) Kottudāmu (కొట్టుదామం) — used only in the first person plural (... let us strike), Kottavalenu (Fusos), Kottavatsunu (ిటకర్పుడు), Kottakudada (೯೬೫-೮%), Kottite (೯೮%), Kottına edala (\$25.250), Kottınatlaite (\$25 நி), etc., Kottakunte (ுல்ல் ம்), Kottaka. pote (್ಟ್ ಕೆನ್ ಕೆ), Kottam edala (್ಟ್ ಏಎ೭೦), Kottata (కాటురూ), Kottaka (కాట్రే) Kotta (t¹|13)

8 Modern optional forms -- Kottanu ledu, tittanu loda (కొట్టమాలేదు, రెటమాలేదు) Kottāledu, tiţtāledu (೯೬೯ರೆಜ, ರಿಚಾರೆಜ) (vide I 13) may be used

D There is vast difference between old usage and modern usage in the case of common Verbs, some of which are used as Auxiliaries and occur in thousands of idiomatic Old Telugu, nākadı valayan expressions (ಸ್ಥಾತವಿಕ್ಕರ್ಯ) = Modern Telogo, nåkadı plen gular blo (acer as a pullared dzheyarādu (ភាម័ល ដំណើមាយ),បនិងប្រdshēyagādu (ಸ್ಟ್ ಪ್ರವರ್ಧಿಸ್ಕಾರ) = Modern Teloga nena taheva kudadu(ಸೆಮ ತೆಯಭಾರತ್ತ). Old Teluga

vāda pāren (おぶ かつま) = Modern Telugu vadu j & ripoyinada (නත්රා ආර්ථේගා ආර්ථ

Veys, vest (200, 22), etc., are indispensable to Modern Telugu Its older form vents: (30) is quite obsolete, so also its Infinitive vaivan (Z==) so that Old Telugu vaiva iādu (3 s or s.) = Modern Veystäda or veys kudada (3cc sres.) Such idiomatic phrases as Akalı ga unnadı-

(ఆకరిగా ఉన్నది) or a kalı avretü un(na)dı (ఆకరి

వేమ్తా ఉక్కరి) , bhayam vestundi (భయించేస్తుంది), pitshi ettindi (\$3, 23ca) orpitstsi pattinadi, (ಎಲ್ಫ ಶ್ವೇಕ್ಷಣ) must be used freely instead of Old Teluguākalı vodamınadı (ఆకరి జాడమిగది), bhayamu gadırınadı (భయము గదరిశద), which are quite obsolete 10 Telugu has no passive voice The pada (వరు) form may, be used only in ıts proper sense as ın adı kanabadadu (e:a శనబడ≾) It is wrong to say natsheta untsa. badına (ಸೌವೆರಮಂಪ್ರಸ್ಥತ) for nenu untahına

(కేమ ఉంచిక), unless the meaning intended is Arrangement of Words

' what I happened to place '

In modern speech the arrangement of words follows the order quite natural to the Telugu mind and that order is most forcible and expressive Writers will do well to follow and write as the words naturally follow each other Taus inverted forms like evaru rammannāra hinnu ? (ఎகல் ಕಪ್ರಸ್ಥಾರು ಸಮ್ಮ ?). Vatshadandı inta aspatiki missla dayva kontunnu nababugarılagu! (ಕರ್ನುದಂತೆ ಇಂಡ పేవటికి దూపాలు డుఖ్వకొంటున్నూ నబాబుగానిలాను 1) Vella gana adogutada ganı manada enduku

tshesināvu kāvu tsheppina pani ani emi tsēra dam? (విగ్గానీ ఆరుగుతామగాని మాగడే, ఎందుకు చేసివాతు కావు, చెప్పినవని ఆని—సమిచేయాడిమ్). need not be avoided, when natural,

Synonyms.

Telega dictionaries (modern or mediæval) ignore all distinctions between synonymous words, e.g., kaka (we), vetsa (Zu,), vedi (설립) usl nam (숙절點) are used in colloquial Telugu each in its special sense ; but so-called literary Telaga uses them indiscriminately. It is besides thought that all possible synonyms of concrete nouns should be used in a passage to avoid repetition. This, instead of being a grace of style, is in reality a mark of a vicious style. When a story is written about a kaki (इ.8) it is best to call it a kāki (इ.8) throughout, just as when a man tells a story about himself he uses I (నేడ) throughout and does not bunt for synonyms for the first personal pronoun.

Even grammatical forms supposed to represent the same relations contain subtle distinctions: thus vad ina tsheppaledu/ 802 pr ಹಿತ್ತರೆತು) is different from vada kuda tshepps. leda (బాదుకూడా చెక్రేమ), tirigi (80%) is different from firigi (θος); tarugu (δωκ) psraka (acis), koyyi (s a.). tempu (dos), tenteu (300), tehiru (60), tehinten (400). tabilisu (&2%), etc., are all carefully discriminated in practical life. Modern writers should therefore follow modern usage and should not rely on lexicons of the so-called literary langur ge.

Obsolete Words and Senses.

Thousands of words in the dictionary are obsolete; they should not be used. Many

have changed their meaning and application : tal ira(రీర), kampu (కంట), repu (రేట), tegula (3% w), moray (20 0), truly (20 0), such words should be used according to modern usage.

Canabuit Words

Many Sanskrit words naturalized in Telugu have a sense different from what they have in Sanskrit, eg., abhyantaram (ಅಥ್ವಂಕಕ್ಟ್) marjāda(మర్వార్), āgraham(ఆ/గహమ్), rūdzava (రూర్), soumānam (ఆమమానమ్), nidzem (ఫిజిమ్), Such words should not be used in their In the case of others, original sepse. Sanskrit usage must be followed, subject to the distinctions established in Modern Telago, guradu (** 55 5)_'planet Venus; guruvu (మాకు)—'teacher'; dantam (కంకప్) and panen or palle (say or soo) are not the same.

So-called Hybrids -Some compounds made of Sanskrit and Teluga words have been accepted by Pandits, because they have been used by old poets, e.g., karakanthoda (ビードロ いない). It is irrational to object to the use of similar later formations which are freely used by the people in daily life, e g., duralavata (didestrue), if they express ideas paturally Compounds of English and Telugu words and Hindustani and Telugu words, too, have become naturalized, e g., rail bat di (com mana).

Tadbhavas.

Some of these which occur in literary Telugu, e.g., mānisi (x-at) are not in ase now. They are to be avoided. Others have come into use which were never used in old literature, e g., manishi (ಮಸ್ಸು).

HEAT A DETAILED SYLLABUS

Sert 19131

THERMOMETRY

OFFINITION of temperature Flow of heat temperature analogous to level, pressure, pitch or potential Comparison of temperatures the sense of touch not a sure guide (Glazebrook, p. 10 Gregory & Simmons I, p 95) Some other method of measuring temperature The effects of heat change of state or size or temperature. How expan sion may indicate temperature. Choice of thermometric substance Solids, I quids, gases mercury, water, alcohol Cond tions to be satisfied by the stem and bulb Gregory and S mmons, pp 90 96) The fixed points fundamental interval scales of temperature Definition of degree Conversion of degrees from one scale to another Graphical exercases, interpolation, find ug the equation of the graph

Construction of a mercury thermometer Determination of the fixed points; precautions to be taken Graduation of a mercury thermometer Comparison of the mercury and other thermometers Reasons for select ing mercury as a thermometric substance

Comparison of two thermometers: Graph to show correction. (Woollcombe, Exp 3) Find the error in the lower fixed point (Woollcombe. Exp 4) Find the error in the Boiling point taking into account the pressure of the air (Woollcombe, Exp & Sinclair, Exp 17) Spe cial forms Rutherford s, Chinical Six's.

PROPLEMS

Wly must the space above the mercury in a thermometer be free from air !- Why is the wall of the bulb of a thermometer very thio, while the wall of the stem is thick ?-What would be the eff ct of (a) sucreasing the a se of the bulb ; (b) decreasing the width

of the stem of a thermometer ?-Wby is a amaji thermometer better than a large one for eccentific purposes? Mention some of the d andvantages of small thermometers compared with larger ones -ls it correct to say that the temperature of one body is twice as great as that of another !- Why is a fever thermometer made with a very long cylindrical bulb instead of a spherical one !-- In we of the fact that alcohol expands quite pregularly what would be the best way to graduate an alcohol thermometer ?--

A thermometer provided with both a Centi grade and a Fabrenheit scale was used in taking the temperature of a room The sum of the readings was found to be 88 What was the reading on each scale !- What is the temperature of an oil bath, when the reading on a Fabrenheit thermometer standing in the oil is twice that of a centigrade !- What is that temperature at which the reading of a Fahrenbeit thermometer is as far above zero ne it is below zero on the Centigrade acale !- A thermometer is graduated so that it reads 15 in melting ice and 60 in normal steam, convert into degrees Cent grade, the readings 20 & 90 taken on that thesmometer -The boiling point of water according to a certain thermometer is found to be 98 b C when the barometer pressure is 745 mm What is the error of the thermometer at this boiling point?-What is the correct temperature when this thermometer reads 30 degrees C , assuming the zero point correct !-- If a thermometer reads one degree C in melting ice, what is the correct tempera ture when this the rmometer reads 22 degrees C . assuming that the boiling point is right ?-In a certain experiment only the bulb of a thermometer is exposed to the temperature that it is desired to measure. If this temperature is above that of the room, will the reading of the instrument be too large or too small?

EXPANSION OF SCLIDS.

Rough experiments (Bar and gauge and Graveande's apparatus) to show both linear and cobical expansion is solids. To show that different bodies expand differently when ramed to the same temperature (Egr. 9, Glizz-brock). To measure the co-efficient of linear expansion of a rod (Sinclair, Esp. 19; Gregory and Hadley, Esp. 18) Exp. 12, Woollcombe may be reserved for demonstration. The co-efficient of replatinant he same as for glass. Relation between the co-efficients of linear, superficial and cubical expansion. (The determination of the co-efficient of cubical expansion of glass or of a solid—Woollcombe, Exps. 18,14,10 Exps. 18,1

Practical consequences of expansion— Grabam's mercurial pendulum, Harrison's Griditon pendulum, balance wheel of a watch, dial thermometer, Trevelyan's Rocker,

Effects of expansion: large iron girders, gas and water pipes, furnace bare, rails.

The force exerted by a body in cooling— (Evercise 9, page 30, Sinclair)—advantage taken of this force in drawing together will that have deviated from the vertical, in fixing fron tyres to a cart wheel, in the manufacture of large gues. Raperts drops, Bologou vials, Annealing glass.

PROBLEMS

A stiff brass wire, nearly half a metre long, is supported stably like the beam of a balance, When the wire rests horizontally, one aris warmed. Why does the heated side sink!—A long gless tabe is fixed at one end in a clamp so that it stands in a horizontal posi-

tion with its free end just opposite to a mark. Place a flame under the tube and heat it. The free end first goes above the mark and then gradually goes below it. Explain .- A glass rod is graduated in millimetres and is correct at 0 degree; a rod of steel is graduated in millimetres and is correct at 15 degrees. At what temperature (above 15 degrees) will the lengths of the divisions on the two scales be equal .- A copper rod is inserted in a glass tube so that they coincide at one end. If the co-efficient of linear expansion of copper is double that of glass, and the length of the tube at 0 degree C. double that of the rod, show that the distance between the other ends of the tube and rod will be the same at all temperatures .- Explain why glass stoppers can often be loosened by carefully heating the neck of the bottle.-How would you construct a large metal rod so that its length would not vary at all with the temperature? -What substance possesses a very small co-efficient of expansion? What use can be made of it (Invar '0,000,009)? The density of lead at 0 degree C. is 11 4 gr. per c.cm. Find its density at 200 degrees C. (Co-off, of exp., ·000029).-The brass pendulum of a clock beats seconds exactly at 25 degrees C. How many seconds a day will the clock gain if the temperature falls to 0 degree C. ?

Expansion or Liquids.

To find the effect of heat on liquids (Exp. 20, Sinclair). Different liquids expand by different amounts. Do liquids expand regularly? (Expts 5 & 6, Hintonl), Comparison of the mercury and other thermometers. Desity of water when heated—Cold water finds (Expt. 9, Rintonl).

Ideas of absolute and relative dilatation (Glasebrook, p. 76). Co-efficient of absolute

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distation Co-efficient of cubical expansion

distation well-efficient of cobical expansion of glass+co-efficient of apparent expansion of hiquid (Jones, p. 47). To measure the co-efficient of apparent expansion of a liquid (Sicolair, Exp. 21, Hadley, Expte 117, 118).

(Determination of the same by the ball tobe, Woollcombe, Exp 17 Determination of the co-efficient of cubical expansion of mercary at different temperatures by the density bottle. Woollcombe, Exp 21 Determination of the co-efficient of cubical expansion of a liquid by Methhessen's method Woollcombe, Exp 221

Corrections to be applied to the reading of a barometer (Woollcombe, Art 1)

Maximum Donnity of water, (Exp 22, Sinclair, Expits 19, 20, Glazebrook or Exp on page 280, Narasa's Plysica) Draw two graphs (1) showing the relation between £ and v [2) abowing the relation between dessity and temperature of water (Sce Physics) Table 13, page 559, Gregory and Hadley). The part played by the anomalous expansion of water in the economy of nature Graphic representation of the change of volume and temperature accompanying changes of state of water

Penerana

Alcohol is found to be about 3 per cent more in volume during agmmer than during winter. How can a sharp spirit dealer take advantage of this ?—A hollow sphere of metal is so constructed that it floats in water at 9 degrees C with almost the whole of it below the surface of water. Explain what happens (1) when the water is bested above 0 degrees C, (2) when the water is cooled from 9 degrees C to 0 degree C.

Describe in detail the process of freezing of a pond until the nee is strong enough to support heavy loads. What would be the effect on its bearing power of bresking the noe all round the edge I—On a cold winter day when the temperature of the air soll degrees C below zero, a hole is made in the toe of a deep pond and the temperature is observed at varicus depths. What kind of a thermometer would you propose as most suitable for the purpose? What variations would you expect to find I diver reasons for your answers—Ex roses 1, 7, 11, 12, 13, Gregory and Hadley, pp 171 172 Examples 6, 7, Glassbrook, rage 95

ETRINGION OF GLORES

Fflect of heat on gases (Exp 23, Sinclair) Exercise 1, page 46 Sinclair Galileo's ther wometer, indications depend not only on the temperature but also on the pressure of the

To measure the co-fficient of expansion of a gas at constant pressure (Exp 24, first and second-method, Sinclair, Prpts 24 and 25, Woollcombe) A nuterrating method due to Ir N H Williams of Indianapoles in described in Chitle's Laboratory Munual Exp 88, pages 159 160. Charles's Law Graphical representation of results Absolate zero Prove that the volume is proportional to the absolute temperature Charles's Law and Boyle's Law combined Problems on reduction of volumes to N T P (See Macnair, Art 71. Note to the teacher)

The co efficient of increase of pressure when the volume is constant (Sinclair, Exp 25, Woollcombe, Exp 26) Description of an au-thermometer

R-lative merits of gases and mercury as thermometric substances How 150 degrees C or + 1000 degrees C have been determined Deficition of a degree Centigrade on air thermometer in terms of increase of volume or of pressure. Differential air thermometer.

PROBLEMS.

Compare the amonut of oxygen taken into the lungs at one inhalation in summer when the temperature is 30 degrees C, with that inhaled in winter when the temperature is 20 degrees C. Exercises 10, 17, 18, 10, Gregory and Hadley, p. 172.

CALORIMETRY-SPECIFIC HEAT.

Distinction between heat and temperature. High and low temperatures. Similarity of temperature and water-level. Changes of water-lovel in commonicating vessels of that and cold water (Exp. 122, Gregory and Hadley). Changes of water-level in commonicating vessels of user-level in the second section of the second second

Relative capacity for heat. Analogy between fluid level and heat capacity. The same quantity of heat produces different changes of temperature (Exp. 125, Gregory and Hodley). Comparison of the rate at which water and mercenry gain heat (Exp. 126, Gregory and Hadley). Different quantities of heat in equal weights of different substances at the same temperature (Exp. 127, Gregory and Hadley). Different quantities of boiler hadley. Or parison of capacities of boiler for heat and capacities of results for beat, Substances experimented arranged in the order of their capacities for heat. Results or capacities for heat. Results or capacities for heat. Results or capacities for heat, Rustances the high capacity of water for heat, Illustration

of different amounts of heat in balls of lead, iron, bismuth, tin, &c., taken out of hot oil and dropped simultaneously on a cake of been-way.

Definition of specific heat. R lative capacity and relative density. Specific heat and specific gravity.

Determination of the water equivalent of a calorimeter (Espt. 22, Sinclair, Woollcombe, Esp. 27, 28, 29, Rintoul). Relation between water-value and best capacity. Specific heat of a solid (method of mixtures) Esp. 29, Sinclair and Woollcombe.

Determination of the specific heat of a solid lighter than water or of one that slicks to the test tube (Woollcombe, Exp. 30).

Determination of the specifi heat of a liquid, e.g., mercury or turpentine by the method of mixtures (Woollcombe, Expts. 32, 33, Sinclair, Exp. 30, first method).

Determination of the specific heat of a liquid by usiny a solid of known specific heat instead of a second liquid (Sinclair, Exp. 30, second method, Wollcombe, 34).

PROBLEMS.

Under the equator the surface of the set cearcely attains a temperature of 80 degrees C., while the saud of the Sahara becomes held to 70 degrees C. Why ?—Why is more? used in thermometers?—A piece of platinum weighing 100 grams is taken from a formes and plonged instantly into 500 grams of water at 20 degrees C. The temperature of the water rises to 30 degrees C, What is the temperature of the formace, if the specific heat of platinum is 0.032 ?—For the purpose of a foot-warmer, which is preferable, a bottle containing 10 lbs. of water or a 10 lbs. block of iron, both initially at 100 degrees C.

Explain your answer—On entering the sea on a summer morning the water feels cold, but in the evening it feels were. Explain this —A piece of timed tron is found to have a specific heart of 0.09. What is the percentage of iron and of tim present?—If the specific heat of couper is 0.003 when the Contigrade colors used, what would it he if the Pahrenheit scale were used?—A mass of 250 gr of copper is heated to 100 degrees C and placed in 100 gr of alcohol at 10 degrees C contained in a copper calorimiter whose water equivalent is 20 gr. The temperature rises to 30 degrees C, find the specific heat of alcohol

SOLUTION, FUSION SOLIDIFICATION

Melting points of crystalline and amorphous substances Melting points of alloys, eg soft solder To find what happens when no is heated (Exp 6, Sinclair) To find the melting point of parafin was (Sinclair 8, 25, Woollcombe, 6, 7)

To determine the melting point of an alloy (Woollcombe, 8). Temperature remains constant during the process. To find the relative density of too (Fxp 7, Sinclar) contrast the behaviour of toe with that of paraffin or externie Other exceptions, cast iron, type-metal, antimony, &c. Advantage taken of their exceptional behaviour Relation between melting point and pressure. Bottom ley's Expt. (Sinclair, Exp 9, ol Bazebrook, Art 108 [29]. Gliacer motion

Determination of the latent heat of funon of ice (Sincleir, Exp 32, Wealkembe, 57) Determination of the heat of fusion of parafin (Wealkembe, 33, 39) Importance in nature of the high latent heat of fusion of ic Determination of the specific heat of a solid by the fusion of ice (Wealkembe, 31).

To find the amount of heat absorbed when salt is dissolved in water (Woollcombe, 36, Succiar, 34). To find the effect of solids on the melting point of ice (Exp. 10, Sinclarr), To find if the melting point of ice varies with the amount of salt present (Exp 11, Sinclarr) Freezing mixtures

2 parts of pounded ice and 3 parts of crystals of Cal Chloride }-50°C Ice and ice cream Fabrenheit zero

Solid fication —To observe the development of beat produced by solidification (Exp 29 Glazebrook, Exp Fg. 349 Narasu's Physics Lxp 21, Millikan and Gale's Luboratory Physics)

PROBLEMS

Sinclair, Exp 9, Questions 1 and 3

Why are gold oons stamped not cast ?—If the latest heat of Inson of no 1s 80 when the Centigrade scale is used, what would it be whon the Fahrenheit scale is used ?—Explain why salt is sometimes thrown on tey sidewalks on cold winter days—Give two reasons why the ocean freezes less easily than the lakes—How does the presence of the tubs of water in a cellar tend to prevent the freezing of vegetables?—How doyon account for the leaking of water pipes after a severe frost? How can you prevent the pipes from bong burst?—Explain why the too of a pond, which has just frozen, is sometimes found to be overbanging the edges

EBULLITION AND LATENT HEAT OF STEAM

D flerest liquids have different boiling points. To find the boiling point of liquids (Exp 12, Sinclair, Woollcombe, Exp 9) Determination of the boiling point of a saline solution by the air thermometer (See also Woollcombe, Exp 27, too high) To find the effect of impurities on the boiling point of water (Exp. 13, Sinclair). To find if the boiling point of water varies with the amount of salt present in the water (Sinclair, Exp. 14; Woollcombe, Exp. 11.)

Graphic representation of the relation between the boiling point of a solution of common salt in water and the amount of salt present from data given in Physical Table No. 19, Gregory and Hadley, To find the effect of increase or decrease of pressure on the boiling point of water (Sinclair, Exp. 15; Rintoul 22). Place a flask containing hot water and a thermometer in the receiver of an air-pump and exhaust the air. To show the relation between the temperature at which water boils and the pressure to which it is subject (Ex. 57, Crew and Tatnall). A simpler form is also described in Narasn's Physics, page 310. Precautions to be taken in marking the boiling point of a thermometer. Hypsometry. Papin's digester.

Latent heat of raporisation of scater. (Sinclair, Exp. 33; Woolloombe, 40). Determination of the heat of vaporisation of alcohol (Woolloombe, Exp. 41). Refining sugar. Importance in nature of the high latent heat of vaporisation of water.

PROBLEMS.

Why do fine bubbles rise in a vessel of water which is being heated long before the boiling point is reached? How can you distinguish between this phenomenon and boiling?—Why does steam prodoces omach more severe burns than hot water of the same temperature?—Explain why a tea kettle sings before it begins to boil. Why does a large deposit of dew prevent the temperature of the air from falling very low? (Exercise 3 of Exp. 15, Sinchiar).

EVAPORATION, VAPOUR PRESSURE, HYGROMETRY. Difference between evaporation and ebullition. The effect of temperature, pressure, extent of surface and a current of air on the rate at which water or alcohol evaporates. Comparison of the rate of evaporation of several liquids, say, water, alcohol, carbondi-sulphide, ether, oil. The presence of moisture in the air demonstrated. Cooling caused by evaporation (Gregory and Hadley, Exp. 133). Freezing of water by evaporation of ether (Exp. 134, Gregory and Hadley). Icemachines and their construction (See Gorton's Physics, Art. 21). Advantage taken by mancooling of pavements, rooms and wine in summer. How a dog cools itself. Why after violent exercise one should change. Woollaston's cryophorus.

PROBLEMS.

Explain why water can be frozen in a dry climate by exposing it in a shellow pass under a clear sky even though the temperature of the sir be above the freezing point.—What mass of ether at 0 degree 0, must be exported in order to freeze 5 grammes of water at 0, the latent beat of ether being 95?

Condensation, Distillation, Separation of a mixture of liquids by fractional distillation (Sinclair, Exp. 67). Why does the distillation of a mixture of alcohol and water almsysresult to some extent in a mixture of alcohol and water?

VAPOUR PERSONNE.

Preliminary ideas. (Erp. 29, Jones' Practical Physics). Saturated and unsaturated vapours. This pressure of a vapour increase with temperature (Jones' Practical Physics, Erp. 30). To compare the pressure of various liquides at a given temperature (Exp. 187, Gregory and Hadley). The vapour pressure is independent of the pressure of air. (Exp. 183, Gregory).

and Hadley) To measure the pressure of aqueous vapour at different temperatures (Woollcombe, Arts 42, 43) (Determination of the pressure of alcohol vapour at different temperatures Woollcombe, art 41) The acpour pressure of a liquid at its boiling point sequel to the almospheric pressure (Sinclair, Exp. 16, Gieggry and Hadley Exp 130) Definition of boiling point Determination of the boiling point of alcohol (Woollcombe, Exp 10, Gregory and Hadley, Exp 140) (Effect of change of pressure on the boiling point of alcohol (Ex 145, Watson's El Practical Physics)

PROBLEMS

Does heating the air in a room remove the water vapour? Why is the air in an artificially heated room in ually dry? Why are morning mists dissipated by the rising sun! Make a graph to show the maximum pressure of water vapour between 0 degrees and 100 degrees C Questions 2, 12, 14 and 16. Grezor and Radleyn, 202

HYGROMETRY

Absolute amount of moisture present in air the chemical hygrometer (Expt 142 A. Gregory and Hadley) (Calculation of vapour pressure and from the tables of the hygrometric state Too high See Jones, p 71 . Glazebrook, page 148) From the data in Table 17, Gregory and Hadley, draw a graph connecting the temperature and the aqueous vapour present Relative humidity Dew point Aluminium cup hygrometer or Daniell s or Regnault's (Exp 143, Gregory and Hadley; Woollcombe, 45) Mason's Hygrometer (Calculation of aqueous pressure, dew point and relative humidity from tables. See Glaze brook, pp 155 180 and Ward's Exercises in Elementary Meteorology, appendix Determipation of the constant of a wet and dry bulb thermometer, Woollcombe, 46 Determination of the mass of 1 hire of laboratory air (Exp 47, Woollcombe) clouds, hail, snow, fog, dew, mist. frost

PROBLEMS

When it is dry and hot, one feels cooler during exercise in sunshine and open air than when sitting in the house Why !-Why is the climate of Canada delightfully cold '?-Is the climate of the interior of Australia healthy ?-Why is the equatorial region of Africa called the" White Man's Grave ' !-A person wearing spectacles comes into a warm room after a walk in the frosty air What happens to his spectacles and why ?-If on a certain day, it was found that the dewpoint was (a) very high, (b) very low; (c) equal to the temperature of the air, what would be the hygrometric state of the air in each case?-Four pegs are driven into the ground and the four corners of a blanket are fixed to them Would you expect to find dew under or on the top of the blanket?

Сочристон

Conduction defined To show the variable and steady state in the conduction of heat (Exp 36, Sinclair) Repeat the experiment, with an iron wire and with a glass rod To compare the relative conductivities of metals. (Exp 87, Sinclair or Exp 155, Gregory and and Hadley, Exp 12, Rintoul) How to calculate the relative conductivities of the metals Metals arranged in the order of their conducting powers Graphical representation from data given in Physical Table 20, Gregory and Hadley Perform the experiment anggested in Exercise 2, Exp 87, Sinclair, with rods of copper and lead and explain what happens when longer cylinders of the same metals are used (Co-efficient of conductivity (Gregory and Hadley, pp. 217-18). To compare the conductivities of a thick wire and a thin wire of the same material and to find a relation between the relative diameters of the wires and the relative conductivities of metals (Exp. 38, Sinclair, Exp. 11, Rintoul). Metals good conductors of heat (Exp. 39, Sinclair). Dayy's Safety Lamp. Effect of different conductivities of wood and metal (Gregory and Radley, 142; To show that a body becomes a worse conductor of heat when powdered (Exp. 40, Sinclair). Comparison of the conducting powers of different kinds of cloth (Exp. 41, Sinclair). Practical effects -uses of flannel, Norwegian cooking stove. boiling water in a paper vessel. Water a poor conductor (Exp. 42, Sinclair or Exp. 156. Gregory and Hadley). Poor conductivity in gases. Thermos Flask. Refrigerating Chambers. Dress of man.

PROBLEMS

How do the Esquimaux manage to live in huts built of ice !- How can a silver spoon be distinguished from an electroplated German silver spoon, by inserting them both in hot water!-Why is a floor of marble much colder than a wooden floor!-What happens when a stream of burning alcohol is ponred over wire gauze with narrow meshes? -Why is it warmer in winter under a thatched roof!-Explain the term 'insolation' --Why will the moistened finger or the tongue freeze instantly to a piece of iron on a cold winter day but not to a piece of wood ?-Why can hot water be poured into a glass beater but not into a glass jam-jar without eracking it?-How is heat conserved in hoilars?-Which would be warmer-one thick blanket or two blankets of balf the thickness of the former !- How is a football field pro-

tected from frost?—Why are plants often covered with paper on a night when frost is' expected? Ex. 8 & 4. Exp. 42. Sinclair.

CONVECTION.

To show how liquids are heated (Exp. 43, Sinclair). To show that convection assist the heating of a liquid (Exp. 44, Sinclair). To show how buildings are heated by means of water (Exp. 46, Sinclair). Convection currents in air (Exp. 45, Sinclair). Principles of ventilation (Gregory and Badley, p. 221). A botair heating system (Gorton's Physics, Art. 257). The cause of the draught in a chimney. Land and see bretzes monsoons, trade winds, occan currents.

PROBLEMS.

What are the chief objects of ventilation I— How is this eff.cted in the case of (a) a living room; (b) a school room — Why does increasing the height of a chimney increase the draught I—Exercise 27, p. 233, Gregory and Hadley—Why does a small mice wheel rotate when placed over a lamp chimney I— Why are narrow chimneys better than wide once I—Explain why the pointed end of a weather-cock is always turned towards the wind.

RADIATION.

First notions of radiant heat (Exp. 4). Sinciair). To show that radiant heat travels in straight lines (Exp. 48). Sinciair with earticles). Comparison of the radiating powered various auricaes by means of a strip of easitive paper or Crooke's radiometer (Exp. 5). Sinciair). Omparison of the aborbing power of various surfaces by mease of astrip of samultive paper coated with these naticas (Exp. 49, Sinciair). Radiation may be referted by a polished surface. Does it put through gless? Greculouses. (Newton)

Law of Cooling, Hadley p 224, Woollcombe, Art 48, Rinton, Exp 41) To plot the curve of cooling for a calorimeter and to determine how much heat is given eff by it in unit time at a given temperature (Exp 49, Woollcombe) Specific heat of a l quid by method of cooling (Sinclair, Exp 31, Woollcombe Lxp 35, Rintonl 34) (Comparison of the emissive powers of two substances eq, lamp black and turol (Woollcombe, Lx 50).

PROSTENS

Which will be cooler on a bot day, a white bat or a black one?—Which makes the better teapor, silver or earthenware?—Why should fire trone be brightly polished?—A school room is heated by hot water Should the pipes be polished or dull?—The bulbs of two diedutical thermometers are coated, the one with lampblack, the other with silver, compare their readings (1) when in a waterbath in a dark room, (2) when in the sun, (3) when exposed on a clear night, explaining why they do not express on all these occasions.

HEAT A FORM OF ENERGY

The nature of heat; historical survey; Joule's experiments; the value of the mechanical equivalent Experiments to illustrate the conversion of motion into heat (Exp 163, Gregory and Hadley) Generation of fire by friction, of wood on wood at zearchices, and estimates the boil water by friction. Is the reverse true? Discuss what happens in the steam engine.

Determination of the mechanical equivalent of heat (Exp 164, Gregory and Hadley and Mallikan and Galo's Laboratory Physics, Exp 20).

Compression and expansion of a gas Heat by compression—the fire syrings (Exp 165, Gregory and Hadley) Cooling by expansion

(Exp 166, Gregory and Hadley) Apparatus for the conversion of gases into I quids Typical justance of carbonic acid gas

Inspection of a model steam engine slee Exercise 62 Crew and Tatnall. All the American school text books give a description of the steam engine in the various stages of its invention. A talk about solar energy

- LIST OF PRACTICAL EXERCISES (QUANTITATIVE.)

 1 Comparison of two thermometers—
- Graph to show correction
- 2 To find the error in the lower fixed point
 - 3 To find the error in the boiling point
- 4 To measure the co efficient of linear expansion of a rod
- 5 To measure the co efficient of apparent expansion of a liquid
- 6 To measure the co efficient of expansion of a was at constant volume
- *7 To measure the co efficient of increase of pressure at constant volume
- Determination of the water value of a calorimeter
- 9 Determination of the specific heat of a solid
- *10 Determination of the specific heat of a solid I geter than water
- 11 Determination of the specific heat of a liquid, e.g., mercury or turpentine
- *12 Determination of the specific heat of alcohol by using a solid
- 18. To find the melting point of pereffic
- *14 To find the melting point of an alloy
 15 Determination of the latent heat of
 featon of the
- *16 Determination of the latent heat of fusion of paraffin wax

- 17. To find the boiling point of liquids.
- 18. Determination of the latent heat of vaporisation of water.
- *19. Determination of the latent heat of vaporisation of alcohol.
- 20. The vapour pressure of a liquid at its boiling point is equal to the atmospheric pressure.
- 21. Vapour pressure method of the determination of the boiling point of alcohol.
- 22. Determination of the dew point.
- *23. Specific heat of a liquid by method of cooling.
- *24. Determination of the mechanical equivalent of heat.

The exigencies of the school time-table and the limited powers of comprehension and assimilation of the average High School boy have been kept in view in drawing up the syllabus. Portions above the standard have been anclosed within brackets.

Experiments marked with an asterisk(*) need not be attempted by the average student but may occupy the quicker pupil when he has the time to spare. These quantitative experiments have to be supplemented by a indicious selection of qualitative exercises at each stage. The problems, &c., are meant to be suggestive and it is only by their correct appreciation that the success of the work is assured. The oral instruction of the teacher is of paramount importance at this stage of the course and provision should be made throughout for the discussion of experiments and results, and for written questions involving thought on the principles elucidated by the experiments. His neat demonstrations are appreciated by the pupil and his lectures prepare the student for the time when lecture and text-book will be the chief source of information. On the supposition that about 80 periods of 50 minutes each will be available for the study of heat, 24 double periods may be set apart for practical work, 16 devoted to questions and discussion, 16 to demonstration and lecture, the orderly part of the note-book work also being done in class.

K. S PARABBAHMAN.

THE S. S. L. C MARKING SYSTEM."

THE object of the marking system is to steadily and equably regulate the work of the boys, and put a check on spasmodic, fitful and desultory work, It does this satisfactorily; but I ask, can this not be done as well, if not better, by a system of periodical examinations? "Examinations, again!" you exclaim, "a plague upon them! It is to them that all evils of the old system are due-the mechanical memorising, the system of over-violent exertion, perniciously straining the tender, budding brains of young boys."

But, what is our oral questioning? Is not this examination-a dread spectre haunting at oftener intervals than the periodical exemination, making its calls without notice or warning, therefore the more scaring, and throwing the victims into greater panic? Here, by the way, a question arises-Which is better: the surprise examination taking the boy unawares, or the examination with fair notice and warning? The latter has the appearance of fair and honest dealing, while the surprise affair looks like springing upon the unsuspecting foe at an unguarded moment

A paper read by Mr.V. Mahadovan at a meeting of the Tanjore District Secondary Teschers' Association held in the Town High School, Kumbakorame on the 80th August 1913.

There are teachers holding either view But this is a minor issue, and need not engage our serious attention this evening

Now, to Onestioning How often is this oral questioning to be made? Every day of the week? "Just put a few questions every day in the old lesson before you start the new one, says the manager, or beadmaster or Inspector, or such men who, not put to the real and practical working of it, can only con ceive that teachers are raising unreal difficulties in order to shirk work and have an easy time of their school day Allot 1 of an hour or 20 for questioning, and then begin the new lesson Alas! How very easy to say, but how very hard to do! What is the extent of the portion that can be done within a period ? Take the most serious and businesslike pedagogue, who takes a straight course, never deviates into a digression, never pauses to have a hearty laugh with the boy, never wastes sermons on them What can be do in the small remnant of time after questioning? Sixty lines of prose, 30 lines of poetry, some 4 pages of history or barely one historical thome, and so forth, at the highest computation How many questions, really good and testing ones, can be framed for the next day's work within that small and narrow compass? These questions, mind you, must be good and testing, that is to say, carefully and cleverly calculated to test (1) the boys' attention in the class, (11) their preparation at home, (iii) their power of thinking, (iv) their fluency and power of ex. pression Their answers should by no means be mechanical, done with in a word or two, but must be pretty long so as to discover their capabilities of arranging ideas in proper sequence and clothing them in fitting language without perpetrating beinous sins against grammar and King's English All this implies

a string of sentences, which the boys must be delivered of in the short time which the teacher pinched for time can afford to give them The teacher then has to slict his marks to the idea or matter, and then the language readiness of utterance, and facility of expression, and value the whole answer But, in the first place, is it fair to indee of the boys' capacity from his speaking which is commonly very halting, requiring to be every now and then urged and goaded on, and crossquestioned by the tracher, and which is after all all worded and faulty? How few of us ourselves could pass through the ordeal with any degree of grace and success? The answer to the teacher's question is known, but then for speaking it out it requires an address. promptitude, and a talent, 'the gift of the gab' with which few are gifted The generous teacher must make due allowance for all this He must, within the space of a few minutes before him, make all due adjustments, and quiet his uneasy, vacillating conscience before he arrives at some estimate of the boy It involves an inward struggle and conflict and pain, which must be felt by every bonest teacher, whose lot is the more wretched and pitiful, because he cannot give utterance to it, and make his task master understand the searchings of his beart, and pity him. The teacher has done with it after all, but only in a way, and not at all satisfactory to himself "Conscience doth make cowards of us all." and we teachers have been cursed with too much of it

"There is no exactitude or perfection in the matters Don't be aqueamish and over-fastidious It is all a question of approximation," say our masters, who to us appear to be criefly indifferent and easy going But the teacher's exactions quality 12, even to an

approximation he does not remotely approximate.

Let the teacher then question once a week, a fortnight. Let him devote his whole hour, if he likes, to questioning and make his viva roce examination. He can attack in the course of his hour, just three or four bove, and if he proceeds at this rate, how many 'rounds' as they call it. can be clear in a session? If you conduct such occasional oral examinations, and enter your marks, can these marks be, in any proper sense, a record of the daily work of the boys? These are questions and questions; they vary widely in their degree of easiness or difficulty, in the length of their answers, in the demand that they make on the intelligence, or memory of the boys; and the questions being put to the boys, each to each, the hardest task still remains, that of arriving, in the midst of this perplexing diversity of elements, at a uniform standard of valuation. Is not this enough to send a tender conscienced teacher into a crying despair? Every answer of moderate length made has then to be discussed and corrected. and if you honcetly proceed thus, you can hardly question the whole class twice over in the whole long term of the year. And yet you are bid to take at least three rounds !

There is one device however, by which this difficulty of oral questioning is obviated, and that is by giving one short paper to the whole class, a one-hour paper requiring very short answers. These cannot, in the nature of things, be anything but short and mechanical. This is indeed a fair test, easily made, as often, as desirable. There is the same set of questions by which all the boys are tested, and the results yield to us the relative merits of the boys, judged by a uniform standard. But

by what strange construction or by what straining of language can this be called oral examination? How can the boy's power of speaking be tested in writing?

There is one point to which I should like to draw your attention. Our class marks are often put by the side of the public or annual examination marks, and often tested, in regard to their accuracy and reliability. If there is wide disparity, the inevitable conclusion is our judgment is faulty; and we should thereafter be at some pains to try to arrive at the figures of the written examination. This is a blunder and the more grievous because it is made by persons in authority, with whom it may be indelicate, if not positive treason, to argue. Sometimes, the Inspector gives a subject for composition and values the papers. Our class marks, if they are trustworthy, must tally approximately with the results of this composition. Or the disparity will be shown you to your mortification; and we shall be saked to beware. And then what a gaping difference there is between the school marks and the public examination marks! This difference is the more confounding because it is never uniform. Our very good and hopeful boys are often shamed by very low marks and very bad ones, desperately bad, score very high marks, and flaunt them upon the poor puzzled teacher.

The fact is our class marks are a conglererate product of the results of the various celand written examinations conducted in the year. They include marks for reading, rectation, composition, not-books, hose preparation and what not. The last pse shows the marks not of one year, but other past years, speat sometimes in different schools. This is meant to show the history of their three years' life in a very tangible and arithmetical form! If the teacher adds up all these marks given at various timer, and for various purposes, he finds that he arrives at a number which is disproportionstely high or low for the attainments of individual boys, he is himself aghast at the absurdity of his own added up estimate. But that is the tyranny of figures!

This leads us to the question of the apportionment of marks between the terminal everynetions on the one head, and the various occasional examinations on the other. The commonly accepted proportion is 50 % should think this is attaching too much importance to the occasional examinations. made in very limited portions of a subject. It is very easy to do well in these examinations in parts and parcels, and though the marks here are evidence of the boys' regular preparation, it is by no means an index of their real capacity This can be judged only by the annual examination covering a whole book, a whole field of a subject, an intelligent grasp and knowledge of which is tested by questions only at the end of the year | I here is such a phenomenon as being excellent in parts, and very indifferent in the whole Here indeed two and two do not make four. The annual examination test is the real test of the boy's worth and excellence at the end of the year, while other examinations are of value only in so far as they serve as little prize tove for children for indocement to systematic work. To say that this marking system has ensured regularity of preparation, and diligence appears to me to savour of a confession of weakness on the part of the teacher, and again to set up marks as an inducement for study seems to be a question able means of education which quant to set forth higher and loftier ideals. At all events,

the higher class by a may be taught better than that Above all, there is one feature of the marking system which is unfortunately too much extolled; and that is its disciplinary value in so far as it makes the boys decile and ob dient to the teacher, the mark giver and therefore, the maker of his destiners, However it may appeal to our persons vanuites, this might tend to develop a character in them which is far from manily and nobile. We hope it has not bred and will not breed a race of little anoly. Let us regard this, if he bree, so an incidental evil

If the marking system is held as a good incentive, let it be followed by all means, but let us not overrate its importance L t the annual examination carry 70 or even 80 % of the total marks of the year, that being the true and real index of the boys' attainments at the end of a whole year Let the occasional examinations, which are but mosps to the end, be given 20 or 30 %. To this it is objected that the annual examination is an affair of memory, and it cannot be relied upon If the boys can memorise whole books. how much more thoroughly cannot they do little portions of a book? The question paper may be so drawn up as to set rote work at a discount, and call forth real understanding and grasp of the subject Such questions can be more easily set and in larger number in a whole book got through at the end of the year than in limited portions of a book occasionally examined in Next it is urged that it is the training and the process that matter more than the result But the training and the process are good only in so far as they lead to a desirable end, just as in a mathematical question the method and process are of value only in so far as they subserve to lead to the right solution The

end or result is the thing, and the method is only subservient to it. To attach greater importance to it bespeaks want of proportion, and a confusion of means and end.

In conclusion, the marking aystem, if altered in some respects and wisely followed, is
conductive of excellent results. Oral questioning, good and admirable as it is for purposes
of drawing out the latent powers of boys,
affords too elusive and intangible and perplexing material for purposes of marking. I had
better therefore be dispensed with as a mean
of examination and marking. In making an
apportlomment of marks between the annual
examination on the one hand, and the occasional examination on the other, I contend
than ta far higher percentage than fifty be
eview to the former.

A COURSE OF STUDY IN

A COURSE OF STUDY IN ENGLISH HISTORY FOR THE HIGH SCHOOL CLASSES.

(Continued from page 470.)

In this, the third and the last of our contributions on the above subject, after having disconsed in a way some of the having disconsed in a way some of the rational methods of teaching History, we think we can profitably devote some space here to examine the value and the utility of setting practical exercises in the subject. Incidentally some hint, as to how these exercises are to be attempted, will not be found to be out of place and will deserve some attention and treatment here.

From the details of practical work, already incorporated in the scheme of studies found in the previous issues of this journal, practical exercises in History teaching may include

(a) the use of, and the pupils' working upon, documents and other sources; (b) the drawing up of maps and plans of battles and sizes; (c) the preparation of genealogical tables and lines of time; (d) excursions to places and seenes of historical importance; (c) researches in History as far as possible, from archaeological, numinantia and traditional anneces and relice. Of the fire divisions shown above under 'Practical work in History,' we have, in a previous issue, spake enough about the use of documents and the drawing un of lines of time.

The one point to be noted here is that the teacher should make a judicious use of documents and should with their help stimulate the thinking faculties of the popils. To achieve this end, the teacher should read the documents in the class at least twice at first, and then leave the pupils to work upon them. This mode of procedure helps pupils to understand the spirit of the times and the actual circumstances of the situation described in the documents. Oace again it must be borns in mind that documents should reither be injudiciously used nor introduced in every lesson as a matter of course. Incidentally it may be remarked that transcription exercises as a piece of practical work may be set to the pupils from these documents. It is really fortunate that English History unlike the History of India, is not barren of such source books.

A word about the preparation of lines of time and genealogical tables. Popils, while preparing these, may give an artistic turn to their work as by using different colours to denote details worthy of special note. Besides, the teacher with the help of his pupils, when he is doing a particular period in History, may prepare such plans and lines of time as are found to be specially important in the period taught and these may find a prominent place in the class room. These will be renewed with every period in History Though we are prepared to expatiate on the importance of excursions and researcles in History, as far as our devotion to the subject admits, yet we have to consult the local and financial conditions of the school in the matter.

Last though not least, we shall not have done full justice to the subject, with which we have been dealing all along if we do not say a word or two about the distribu tion of work especially in English History in the classes where it is taught as one of the ontional subjects The importance of a well thought out time-table for a school can hardly be over estimated. It is quite true that "what the correctium of solvects is to the whole school so is the time table to the class' A difficulty, rather an apparent difficulty, has now cropped up in some marters in this direction, probably out of a lack of a sense of proportion and out of a neglect of the exact scope of the subject and the degree of information required of pupils who are to study English History as a subject of the C Group Though the difficulty is worked up to such an extent as there are a)ready, papers read before, references made and proposals submitted to such focuses of public opinion as the Tanjore District Secondary Teachers' Association, it appears to be no real difficulty after all practice, generally adopted now in most schools of allotting fire periods a week for

English History, is found to be highly satisfactory, and any attempts at cutting short the periods to less than fire will be preposterous besides being short sighted and will surely result in inefficiency.

In this connection, it will be a source of great relief to teachers and papils if the S S L C Board clearly lays down the proportion of marks which the questions on the detailed portion bear to those on the outlines.

Having thus taken a bird's eye view of the field of History and its requirements, we shall reserve our further talk on this subject, till any future occasion for it arises and complete here the reheme, more than a third of which still remains to be prepared.

But, so the meanwhile, from the above an earcest teacher of the subject readily realizes the magnitude and the importance of the work before him and also the extent to which he is to be resourceful. It is no doubt, a matter for great regret and condemnation that, in the face of so many difficulties which a successful teacher of History has almost aduly to face, some Headmatters, probably of a conservative spirit and of an immobile disposition are blind to the fact that specialisation in the subject is as indepensable to the History teacher as it is to the teachers of other subjects.

Our readers and those engaged in the profession will not forget how necessary it is for them to purge their Headmasters of such wrong notions as soon as possible, if education is to serve its real purpose.

A Scheme of Work in English History on the Stuart, the Hanoverian and the Twentieth Century periode.

Torics Headings	Periode To be Difford	PRACTICAL WORK
I. The Starts 1003-1039. 1. (a) The claims of James 1 to the abrone of Pagland. The Stuarts correspond to the kingly office-Religious parties at the time and their attitude towards each other-James I and his opposessions—The bome policy of the reign—The Utter Settlement-Differences		Discret of the House of Stears.
with the Parliament. (a) The foreign policy of the reign.—The beginning of England's Colonial Empire—The Thirty Years' War.	2	
2. The differences between Charles I and his Parliament coldministing in the Civil War-The Perition of Right-The Grand Ramanteacoc-Ship-moory-Charles I's eleven year grandy through his had instruments—Land and Westporths—The exceuse, the progress and the results of the Civil War-The execution of the king.	•	A map of the Civil War.
3. The Commonwealth, a parenthesis in history—The lorsign policy of Cromwell—Beasons for the Restoration—Compare Cromwell with Sher Khan of the Sac dynasty	3	
4 The Catholic tendencies of Charles 11 and James II.—The reign of Charles II, an "era of good laws but bud government,"—The disgreceful foreign policy of Charles II. The rise of the Whige and the Tories The II thouse Corpus Ast, the third Great Charter of English therites	. 4	
 The revolution—its causes, progress and results at home and abroad. 		The reate of Wil-
0. The relation of William and Mery to the Parliament. 'The Declaration of Rights' The beginnings of Party government.	3	liam of Orange to London, Bis descent from James L. Pedigree showing
7. The strengthening of Party government under Anne. Foreign policy of the reign. The Act of Union with Scotland,	2	the claimants to the Spanish throne.
 The social, intellectual and political advancement of the period. The Hanoverians 	2	, ,
1. The period of the Whig Supremacy and its causes—The firm establishment of Party government and the rise of the Cablust—The Whig Schism and the creduable loreign policy of the reign of George Lunder Stanhops and Welpole.	3	Descent of George ! from James I.
2. England under Walpole—The Wars of the Austrian Succes- sion and its results—The Seven Years War and the War of American Independence.	. 8	Map of the '13' and the '45' Map of the New England colonies at the beginning of the War of Independence.
 The British Empire at stake, 1775—1784. The stages in the American War of Independence—The rule of Warren Hastlogs in Index-Home affairs. Put's peace ministry, 1781—1792. 	, -	
The Industrial Rysolution—Canada, India and the French Resolution. 5. Pitt's war ministry. 1793—1801.	8	
Revolutionary wats up to the Peace of Amicos. The Irish Union and its immediate results.	, •	Pien of the hetsid
The Peninsular War and its two phases—The fall of Napolson—Ministerial changes in England—The Treaty of Paris. 7. The coerthern of the White and the Torn germdenty. 1815—	3 827.	Plane of Traisigns and Waterloo.
The last years of George III. The story of the British Expansion under George IV. 6. The period of Reform 1825—1837.	8	

Sept 1918.1

S G Streetwarter

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The downfall of the Tories-The Reform movement its causes
progress and results-Foreign, Icdiso and Colonial affairs of the
      The Victorian Era 1837—1901
1 (a) The role of the middle classes 1837—1868
 ш
                                                                                     Descent of 1 ctorra
    The administration of Lord Melbourne-Sir Robert Peel-Aber
                                                                           3
                                                                                  from George 1
deep-The Free Trade movement-Ind a and the Colomes
                                                                                    Map to show the
      (6) The Crimean Question-The Great Indian Mutiny-
                                                                           3
                                                                                  chief operations of
Palmeraton
                                                                                   the Crimean War
       The Growth of Democracy and Emps e 1865-1901
                                                                                  Map showing
Englands develop-
     (a) The administration of Gladstone-Benjamin Daraeli-
                                                                           3
                                                                                  ment in S Africa
Affairs in S Africa.
  (b) The Home rule movement.—The Unionist party
IV The reign of the Peace Maker.—The social rel gious political
                                                                           2
economic and colonial development of Figlard at the beginning of
                                                                           3
the 20th century
                                            1803
                                                       Hampton Court Conference and the Uister Settle
                          1605 Gan Powder Plot
                                                       The beginning of England a colonial empire 1607
                                                       Beginning of the Thirty Years War, 1618
                     1621 Impeachment of Bucon
                                                       The Petition of Right 16 8
                                            1633
                                                       The Grand Remonstrance 1641
                           1645 Battle of Naseby
                                                       Frecution of Charles I 1649
                        1651 The Navigation Act
                                                       The Restoration 1660
                                            1663
                                                       The Secret Tresty of Dover 1670
                               1673 The Test Act
                                                       Habsens Occops Act 1679
                                                       The Revolution 1688
            1689 Declaration of Indulgence 1693-
1691 Bank of Fogland founded and The Trien
                                                       National Debt founded, 1693
                                 nial Act passed
                                                       The Upion with Scotland 1707
                                                       The Peace of Utretcht 1713
                        1716 The Septennial Act
                                            1723
                                                       The Methodist Soc ety founded, 1730
                                                       Fall of Walpole, 1742
                                                       Peace of Aix la Chapelle 1748.
                                            1753
                                                       Peace of Paris 1763.
                                                       Declaration of American Independence 1776
                                            1783
                                                       Out break of the French Revolution 1789
                                                       The Peace of Amiens 1802
                                            1813
                                                       The Battle of Waterl to 1815
                                                       Repeal of the Lest and the Corporation Acts 1828
                         1832 Reform B II passed
                                                       ·Abolition of Slavery; \cw Factory Act 1833.
                    1835 Penny Postage adopted
                                            184
                                                       Repeal of the Corn Laws 1846
1850 Austral an Colonies becoming salt governing
                                            1873
                                                       The Irish Isaid Longue 1879
                                                       The Queen a Damond Jub lee 1897
            1899 Out break of the S. African War
                                                       Formation of the Australian Commonwealth 1901
                                            1993
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MILTON'S EPITAPH TO

in the 1632 Edition of the Plays known as the Second Folio

Bi

SIR EDWIN DURNING-LAWREN E, Bart.

On 24th July I received (through Mr. Frank Burgoyne) from the magnificent New York Public Library, Astor, Lennox and Tilden Foundations, the following letter signed

"Wilberforce Eames" :---

"Replying to your letter of July 4th, enquiring about the reading of the fourth line of Milton's Epitaph to Shakespeare on page 5 of the second folio of Shakespeare 1632, I would say that I have examined the eight copies [of the second folio) belonging to this library, and find the corrected 'Starre-ypointed' in only one of the eight, being in the copy marked by Mr. Lennox & with the imprint The. Cotes, for Robert Allot. The seven other copies have the incorrect form 'Starre-ypointing,' The leaf containing the corrected line seems to me to have been inserted in place of a cancelled leaf, as the paper is somewhat thicker. Although the typographical ornament at the head is the same, the ornamental initial letters are different."

Then follows the list of copies of the second folio in the Library, which are in addition to the copy already mentioned, bir.:---

B The. Cotes for Robert Allet,

C. The Cotes for Robert Allet.
D. The Cotes for Robert Allet.
D. The Cotes for William Aspley.

E. Tho. Cotes for John Smethwick, F. Tho. Cotes for Richard Hawkins. Astor, Tho. Cotes for Robert Alion.

Astor, Tho, Coles for Robert Allot,"

The wonderful New York Public Library seems, therefore, to possess all the known imprint variants of the 1632 second folio of the Shakespeare plays excepting only the one with the justint "Tho. Cotes for Richard Meighen."

In the British Museum there are three copies only, all of which hear the imprint "Tho. Cotes for Robert Allot."

In my own library, which contains so many special copies of books with engravings printed upside down in order to a flord Baconian revelations, there is only one copy of the second folio, viz..—that with the imprise "The Octes for William A-pley." But into this copy has been inserted the special leaf upon thicker paper, as described in the copy in the New York Public Library, in which the correct grammaties from "Starre-pointed" appears. Experts are eastified that "This page is evidently an original and contemporary print, not a reproduction and contemporary print, The paper is contemporary."

In the 1023 Edition of the Shakespere Flayiwhich is known as the first folio, no Epituph appears, for although William Shakespeare's Statford had been dead aeren yarrs, the real author, Francis Boson, was still siles. Bis Bacon died in 1626, accordingly in the 1831 Edition of the Plays, known as the second folio, we read:

AN EPITAPH ON THE ADMIRABLE DEAMATICES POST, W. SHAKESPEARE.

What needs my Shakespeare for his honour'd bench The labour of an Age, in piled stones Or that his hallow'd Reliques should be bid Under a stare-voointed Pyramid ? Dear Sonne of Memory, great Heirs of Fans, What needst thou such dull witnesss of thy Name! Thou in our wonder and astonishment Hast built the selfs a lasting Monument t For whil'st, to th' shame of slow-enderouring Art. They easie numbers flow, and that each purt, Hath from the leaves of thy unvalued Booke Those Delphicke Lines with deeps Impression tocks Then show our fancy of her selfs bereaving, Dost make us Marble with too much conceiving And so Sepulcer'd in such pompe dost lie, That Kings for such a Tombe would wish to die.

I insert here the whole poem because, so far # 1 have been able to ascertain, it has never been

correctly printed excepting only in my own copy of the 1632 folio of the Shakespeare Plays" Prin ted by The Cotes for William Appley" and in the A copy " Printed by Tho. Cotes for Robert Allot "in the New York Poblic Library In this Entaph, which is usually ascribed to Milion. we read -" What needs . . that his ballon'd Religues (the Plays) should be hid Under a starre-ypointed pyramid " '

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A ball-pointed per means a pen with a ball moon its point. a diamond pointed drill means a drill with a diamond upon its point, and a "Starre vocanied pyramid" means must mean. and can only mean "a pyramid with a star upon its point '(its apex) But a pyramid with a star upon its apex is a Beacon (propounced Bacon, "Bacon, great Beacon of the Sate" just as ten was pronounced tay, sea was pronunced say, etc 1 Then Milton further tells ne "What needst thou such dull witnesse of thy Name" This is clearly intended to teach us that people ought to have wit enough to perceive that Bacon was the name of the real anthor without the doll witness of a B seen (Bacon) being put upon his works. Yes, the Epitaph tells us in the planest and most urmistakable menner that Bacon is Shakespeare

But these words of the Epitaph were considered too evident and too revealing by those to whom was allotted the task of preserving Bacon's secrets Accordingly in all or almost all the other issues of the plays which were brought out in 1632 "Starre v pointed pyramid" is changed into "Starre v pointing pyramid" "Starre v point ing" is an absord word, grammatically im possible, because "y" like the the German "ge" indicates the past participle as we find in volent, volad, vobain'd, etc., etc.

Into this " Booby trap " so carefully prepared for their undoing, all the learned editors of the Shakespeare plays and all the learned editors of Milton's poems as well as Sir Sidney Lee in his

" Lafe of Shakespeare ' have tumbled headlong. For more than a bandred years schoolmasters have set to their scholars the task of " nouting out" the grammatical blander in Milton's Entland, intending that they should " point to " the absurdity of ' vpointing" which is quite an impossible word. These worthy pedagogues. however, never seem to have thought of declaring that the learned and accurate author of the Equiaph could not possibly have made the ridiculous prammatical blunder which they attributed to him but must have written onite correctly " vpointed "

When I have put this matter before learned grammarians and asked them whether they really believed it possible that the accurate and learned Multon could by a blunder have written 'Starre vocinting,' in every case they have said, 'No! We don't! It is impossible' Bat in Elementary Lessons in Historical English Grammar" by Rev Robard Morris, LLD, 1891, on page 166 we read, "The passive participle in the oldest pariod had a prefix ge. which after the Norman Conggest was reduced (t. y. e) Milton bas yelept -called. He wrong. ly adds it to a present participle in starvocating," And in the Clarendon Press Series ' Milton' by R. C B own, M A. (1873) we read in "Notes on the Nativity Ode" vol 1, page 258, ' vchain'd" " Here v is the prefix to the past participle, the go of Apple Saxon and modern German and the i to Old English, threat, ate It is wrongly ased by Milson in the lines on Shakespeare, being there prefited to a present participle (Lithon)"

Why had not these worthy men sense enough to perceive that " S arre vocating" could not have been an accidental blander, but must have been purposefully written,

The evidence appplied by Milton's Epitanh in of each enormous value and importance and se so little known that I will not now touch upon any other matter except to refer to the opening words of "Love" Labour's Lost," which show that the mighty suthor of the Plays was not, as the Stratfordians as frequently awert, indifferent to the permanent existence of his works, but fully realized that they were immortal. The Epituph ascribed to Militon in fact almost repeats the words with which the Play of "Love"s Labour's Lust" (the first to which the name of W. Shakespeare was attached) commences, which are as follows:—

"Let Fame, that all bunt after in their lives, Live registred upon our brazen Tombes. And then grace us in the digrace of death:

When spight of cormorant devouring Time,
Th' endevour of this present breath may buy:
That honors which shall had been been to be a few or the state of the state

That honour which shall bate his sythes keens edge.
And make us heyres of all eternite."

BACON! Then "world's wonder!" Dears Sonce of Memoria, great Heire of Fams, What needst Thou such dull witnesse of thy Nume "a "that thy hallow'd Reliques should be hid nades a start-pointed Practial" (a Bacon), to tell us that thy hallow'd Reliques, the immortal Plays known as Shakespaars's, were written, not by "the Husseholder of S'ratford," but by THEE!

IS CARLTON HOUSE TERRACE,
LONDON, ENGLAND

INTERCATION OF FRENCH AND ENGLISH LITERATURE.

SIR SIDNEY LAR ON THEIR MOTULE INFLUENCE.

Sir Sidney Lie delivered the last of a course of

four lectures of "The Literary Relations of England and France" to the Oxford summer meeting of University Extension Students at the Examination Schools, Oxford, recently.

Sir Sideey cited opinions of Voltairs and Walter Pater to the effect that great literatures collectively form a single expanse of territory, in which on critical inspection the dividing lines of nationality loss much of their substance. The classical elements shoult out in modern European

literatures in much the same relation as carges to the composition of water. From early times to the 18th century England's literary debt to France was continuously large. During the 18th and early 19th ceptories France reversed the process by levying immense loans on England. The present theme well illustrated the reciprocal processes at work in literary development. The lucidity and fidelity to fact of the French mind had always fitted France for the role of interpreter and tutor to other nations, not merely of her own culture and ideas, but of the culture and ideas which she absorbed from others. The Norman corquerors made French the language of England's ruling classes for more than two centuries, during which English as a literary instrument was threatened with extinotion. When, in the 13th and 14th centuries, the literary use of English revived its vocabulary had absorbed French verbs, nonns, and objectives in a ratio of nearly two to one. English literature of the 13th and early 14th centuries consisted of little besides translation of chancons degests of French metrical romans. French prosody, with ite syllabic regularity and its rhyme, replaced the old English alliterative rhythms. The derice of poetic allegory, which the " Roman de la Rose" perfected, inspired a long succession of English poems. Chancer, the first English poet of medisputed eminence, was trained in the French por school.

The new culture of the European Recaisest which was born in Hally, blossomed estimated France than in England. The newly discret Greek literature gripped the best Franch into with the hold of passion. Nothing in hee temporary annals of the English Reasisst compared with the wide diffusion of Free intellectual energy. Through a great part of centry England and France were at speec. Treaty of Troyes, signed on April 12, 1664, at due to the control of the

William Cecil, the English Prime Minister, the arrival of the Entient Cordisle. The humanis movement, which the Oxford scholars, Coles, Lansers, and more initiated at the end of the 15th century, made not immediate impression on Eig lish literature, More's Utopia was written in Latin and was a contribution to Ecorpean rather than to the National Literature No edition was published in England for the first century and a half of the existence, the first translation was into Franch Caxton, ike all early Fugish principal, chiefly deal with translations from Fracch prose

PARTOR AND THE REVAISSINGS.

The menutation of the Renessance did not reach French poetry tell the 16th century was well advanced The earliest Tudor poets sought stimples in the crowd of French ' theterioneurs" -rhetorical posts in whom the old mediseval tradition was only just tinged with the new hamanism Alexander Barclay translated the French allegory " La Chateau de Labour." John Skeleton borrowed from France his short metra of four or six syllables, Stephen Hawes adapted a French allegory in lis " Pastime of Pleasure " In the next generation Surrey and Wyalt sought direction from Patrarch But from Marot, their chief French contemporary, they took many metrical bints. Alamanni, an Italian poet, who was a refucee in Paris. inspired Wvatt's satures and Surrey's orginal experiments in English blank verse Spenser subsequently accepted guidance from Marot in writing his "Shepherd's Calendar"

To the foot great brench prose writer of the 10th century, Rabelais, Calvin, Amyot, and Muntangne, Pitabethan writers were under varied obligations. Calvin's docternal influence on the ignous reform of Fogland was the frest of its literary power as morb as of his theological ardoor. Plotarch's "Laves" ware only known to the Jizabethans and Fogland breason of Amyot's splended French red drawing and from that version Shakespeare borrowed moch. Few Flandshires realized them appretials known by with Ribbless realized them appretials known by the Ribbless with Ribbless.

but his Ehzabethan disciple, Nash, caught his accent. Montaigne, the inventor of the essay. fascinated the Elizabethan intellect. The roice of the Pleiade caught the Elizabethan por-Spenser began his career with translations of sonnets by Du Ballay. The frequent councidences between idea and expression in Elizabethan and contemporary French p stry prove on inquiry to be direct debts to the French on the part of the Elizabethans although with the process of borrowing went abundant exercise of creative power Shakespeare employed much of the Ple ade's imagery, while he turned it to a new purpose In Henry V be shows facility in writper French and be grafts on his Anglish else where many Preach words, lake contact a conties drops) in Macheth's famous "gonts of blood" Numerous Elizabethan sonneis were translated or adapted from the French. Some Ligabethan sonnets and sequences when they are fully analysed are found to be mosaics of French and Italian originals

The Hogeseot movement in France, despite Calvin's filtheral antagonism to secular collors, prompted mach original treatment of philosophy and history. The Hogeseots, moreover, first turned poetry into savered channels. Da Bartay, the chief Hogeseots peet, peened a long serptional epon which excited immense enthurisam in Protestant England. English translations of Dn Bartay's work modified the secred poetry of Fluxbettann Fegland and exerted son a it fluence on the routhful Mitton.

FRANCE AND ELIZIBRIHAN DRAYA.

In Elizabethan drams French inflorence percel only a subsidiery force. Pogl ab mystery, moral vy, and interlade followed lines which France bed marked out France beight Distribution drams on the trench Bereassarce and the full finding 1 is also than drams the identity of theme and the difference of form constantly arrest d the attention. At Prench transfer of Force and Justice was all

in Paria a dozen years bidere Shaksupeare wrote his play. Despite the breach with the statuerque classical couvernion, Eluxbethan drams never ceased to take direction in point of topic from French goides. The French domination of English literators from the Restoration to Queen Anne's reign, which was often reckoned an unprecedented feature of Degland's literary devolpment, was only a new link in a long chain of progress. The matricage of Charles 1 in 1625 with the French Princess Henrietta Marna reinforced the old literary associations. The new school of behold Irach ronnace of which Milte de Schodery was the mistre had as many English readers as that of Damas or Victor Ruce Jaker.

With the accession of Charles II, England fell under the full sway of that glorious classic era of French literatura of which Racine, Moliere, La Fontaine, Bossuet, and Boileau were the phieftains. Dryden, despite his original genius. fell under the spell. An attempt was made to transpose Elizabethan tragedy into the new French key. No English comic writer of the epoch failed to translate one or other of Moliera's comedies. The theory and practice of French correciness, in poetry were finally expounded by Boileau, who became the literary dictator of Europe, Pope triumphantly championed Boilean's doctrine. Well might M. Fagnet arga Pope's right to burial on the Pantheon. After Pope there slowly came into being in England the great romantic school of Eeglish poetry, and although French taste still had many Reglish disciples, French inflaence steadily declined.

Manawille the acone changed. France discorred English Hirrdure. Deep materpiece of Quena Anade, say, the Sylvation, Reliano, Oracco, Collier's Travel, became Franch classice in Franch translation. Voltaire franch English likes deep in Fracch soil. He taught his fellowcountrymen the significance of Shakupane's work, sithough at the and of his long life hy, in a fit of judicary, attacked Sakukapane as an aft of judicary, attacked Sakukapane as an inspired awage. The scientific speciation of Bacon, Robbes, Locke, and Newton fascinated the French mind. Roussean's thought was natured in English literators—shiely on Locke and Richardson Diddrest ranked the English movelist with Homer and Sophooles. Anglemania spread to French society, and perfect harmony of castom and ideas long prevailed between the two countries. The Broultionary War did not destroy French respect for English hierary sentionest. The 10th contury romatic movement of Chatasabriand, Lumaritine, and the rest owed much to Young's "Night Thoughts," to Osite, to Byroo, Shakespeare, and Sir Waller Soul.

With the decay in France of idealism and romanticism, and the progress of realism of naturalism. English influence on French literature diminished. Yet never before bas English literature been critically studied by French scholars with the thoroughness which distingnishes the present generation. T his movement in France shows daily signs of expansion. Some recent English fiction emulates French impressionism. The English theatre bas never refused a welcome to the wit of French comedy or face. England should always be grateful to France for its earlier lessons in lucid expression and in metrical facility. The Entente Cordiale is rooted in the bistory of the two countries literature.

THE VALUE OF MUSIC IN

"The man that has no music in himself.

Not is not moved with concord of sweet sounds.

Is fit for treasons, stratagems and spots.

The motions of his spirit are dull as nights

And his affections dark as Erebus

Let no such man be trusted."

SHARESPELPE.

Masic is a gentle pastime. It gives pleasure to the agent of music as well as to those that are gathered to hear the sweet melody. (It in other words " It blesseth him that gives and him that takes "

It gives profit to the musician with pleasure It is a healthy exercise and offers healthy recreation to those that follow the musician Exen a serpent is bound down by the peerless charms of music. The educational authorities in India have not done much to encourage the study of music among the students It is generally considered as an agency for providing the musician with the means of hyelihood. Music is really an art Whether with a selfish motive or a selfless patriot ism, journalists, public speakers and professional musicians strongly advocate the system of impart ing music to students in schools and awarding prizes to them for their efficiency. Much of our time is lost in the futile discussion relating to the art and science of music Practical arrangements. without frothy rhetoric, should be made by individuals and corporate bodies to advance the cause of music and an humble prayer should be made to the ruling authorities to patronise the study of music Individual activities and the liberal support of Government would go a great way towards the realisation of the musical millennium

Among the Mahammadan Emperors Akbar the freat was a staunch patron of muse. He sessed orders to bu officers to the effect that be should hear the sweet must of the morning in his palace before day break. Abul Farl given his hero an exaggerated compliment by writing. Hero an exaggerated are a knowledge of the science of music as trained massicians did not possess."

It is said that European music found favour in the court of Akbar. The soothing influence of music is incatculable. It makes had children good and a sorrow stricken man finds solace in it. Music teaches patience and kindness.

A TRACRER

EDUCATION IN THE MAGAZINES

Second Language in Schools and Colleges

Prof k. B. Ramanatha Aiyar delivered a very interesting lecture on The Second Language in Schools and Colleges in the Kellett Hall, Tripli cane, recently, before a large andience when the Hon ble Mr. T. V. Sesbagiri Aiyar presided, in the course of which be said.

If for the greater part of the people there should be a thorough acquisition of a single language of the people and if it should contain all the peces sary information that would make it easy for them to be abreast of the progress of the country. that would be the easiest way of equipping themselves for their life career For the majority of the people a thorough study of a single langu age was all that was pecessary and all that was possible The lowest strata of the cultured people must consist of those who were well equip ped in the knowledge that could be furnished them by the literature Every man must have ele mentary education in his mother tongue, and must have in the lower stages a reasonable and complete study of the mother tongue and the litera ture in the mother tongue. There was no ques tion about the second language so far as the elementary school was concerned. That question might come in at a higher stage Naturally the second language must be the English language. The first language everywhere had been the mother tongge In India English was the first language and the mother tongue of the people was struggling to be the second language. That unnatural position of the mother tongne was due to the importance attached to the cultivation of English

In the secondary stage of instruction also there must be due colivation of the mother longue or locores of time the further study of the languages of India in the High School course must be carried on to height that would be at least equal to the kind of professory that least equal to the kind of professory that least equal to the kind of professory that vertracular languages (Figulia Chemia, Irench) In High Schools Indian students should be arranged to the students and the familiar with the best works in Tamil Telugue, or any of the vertracular languages, as Logd as tadents of Matriculation standard were able to read and understand S r Walter Scotta works and works of smaller difficulty. He was not still satis field with the amount of attention paid to vermocible languages in the High School classes byer. The

time devoted to remander languages and the time devoted to there subjects like history and geography was rastly disproportionate. That kind of extendingly disproportion might be brefressed. Interess attention might be paid to English. But unguly the stress of the subject of t

Supposing the young men of High Schools in lades attained the same proficiency in their vernaculars as the London, Paris or German Matriculates had in their vernaculars (English, French or German), would it be necessary to have the vernsculars brought up in the University at all? Would not the provision of an alternative coprasin the University fairly meet all the demands of University culture then ? If that ambition was realized, he would certainly be for leaving the University to provide for an alternative course in order not to compel students pursuing higher studies to show further progress in vernaculars. But the actual position at present was different, He was for having comething of the vernacular studies further carried on in the University course because young men of India had not studied their vernaculars up to a sufficiently high standard. Therefore the next question was how best they could promote the study of the vernaculars without dislocating the existing arrangements. He said so, because there were very strong supporters of the existing arrangements whose reverence for their cause was so great as Burke's reverence for the British constitution. Bearing that in mind, how to suggest an alteration in the University course that would least dislocate the present arrangements It was conceded even by the stalwarts on the other side like Ray, Mr. Macphail that the only possible way of writing composition was by writing literature, and that a man must have read fairly widely and acquired a knowledge of grammar formally or informally to write good composition, The standard of composition to the college classes was low. If a knowledge of grammer was also expected, they must have an organised course of studies in vernacular literature in the High Schools and Colleges. The course of instruction in the High School clarace must be perfectly organised. With regard to the study of the pondetailed books prescribed for essay subjects in the Intermediate class there must not be any murmur, if the University should prescribe from time to time a number of books to be studied by

hops with a little help from the class reacher. There was agood deal of modern literature in vernacular languages for that purpose, which should only get the recognition of the University. If they had books of the kind for two years more into University course, the students imply adequate the constitution of the University course, the students imply adequate the they canned to be a class they might be supposed to have that equipment in vernacular languages expected of them generally.

In the High School there must be a compulsory study of the mother-tongue and if any parent was eager to have his son educated in Sanskrit, extra time might be devoted to that study or some other special provision must be made. He was for keeping the present arrangements under which students might take up vernscular compoeition or Sanskrit translation in the University course. He would even go a little further and have a provision for translation in foreign langusges like French or German so as to enable young men whose mother tongue was Malayslam or Canarese in which the literature was not of the same high level of culture as in Tamilor Telaga, for the purpose of further studies. He would therefore say that to make the vernacular composition a real test of the proficiency of a young man in his mother-tongue the themes for essays must be taken out of some one or other of the books. There must also be translation from English to vernacular. To revise the regulations in the manner suggested no Committee was necessary. If that suggestion was adopted, that would go a great way towards the improvement in the study of vernaculars. The style of composition ought to be the style of the cultured class who were fully aware of the literary traditions of a language and entitled to express an opinion on the style. There should be so violent bresting away from the literary traditions. The should arm at using the language of the cultured class but not of the pedantic kind.

The advantages of the students of the present generation.

A public mesting was held on the 3rd inf. it Madiru. College Hall, under the suspices of the Made Solder Literary. Solder Solder Literary. Solder College Through the College Timerally, presided. The Literary of the College Timerally, presided. The Literary of the College Timerally, presided. The Literary of the College Timerally, presided. The College Timerally, presided. The College Timerally, presided the College Timerally, presided the College Timerally of the Col

The Chairman introduced the lecturer in a short sneach and the Hon ble Mr V S Sreens vasa Sastriar delivered his interesting address, in the course of which he said that he greatly an precisted the engrances change that had taken place in the conditions of the school, since per sons of his age were at school He gave a vivid description of the kind of houses in which they were taught, the kind of books they studied, the methods employed by the masters to administer just co to those who had done wrong or were considered to have done wrong the kind of teachers under whom they learnt their lessons and the kind of papils they themselves were when they were school boys When he thought these things now and contemplated similar c roumstances to day, it appeared to him, he said. that there had been a complete revolution in all these respects. The young students of to day enjoyed great many opportunities which were denied to those of his days and their position was now very much bettered An admirable change had taken place in the matter of school buildings In those days schools were conducted even under cowsheds but now they were held in good buildings built quite in accord with the character of education the pupils received there in their thanks were due to the Government for the liberal grants which they were yearly providing for the purpose The books which the students now studied had greatly improved , they contained pictorial illustrations which were sure belos for the easy grasp of the lessons and they were written in interesting style affording variety of reading matter Again in the new methods of learning geography and studying science by means of practical experiments the present day students were considerably better off Great interest was being evinced now a days by students on the ert of drawing which those of thirty years ago knew nothing about In those days athletics or physical culture received little or no attention but it now played a large part in the school work After comparing the discip line exercised by the teachers over the pupils in those days with that exercised by the leachers now-a days he dwelt in detail on the character and manners of the students. If they took the qualities of love of truth, industry perseverance courage, helpfalness to those who need help and charity as cardinal virtues, he said it could not be said that present day young nen were hetter than the men of 30 years ago to proportion to the external advantages and opporturities which they enjoyed He concluded by exherting the young men to take advantage of the better opportunities that were now afforded to them by education, so

that they might furn out to be better estizens then those of the previous generation.

Vernaculars in Schools and Colleges

A public meeting was held under the ausnices of the Teachers Association Madure, on the 4th instant with Mr A Rajarama Iyer, Principal, Madura College, in the chair, when the Houble Mr V S Screenwage Sastrup delivered a lecture on ' Vernaeplars in Schools and Colleges before a crowded audience The Hou ble Mr Sreenivasa Sastri in the course of his instructive speech said that one concideration should be borne in mind by all m dealing with the qu stion of vernaculars. Wien they talked of vernaculars in this Prest dency there was apt to arise some confusion between Sanskr t and the vernaculars and what remarks m ght apply in proper force to the vernaculars were transferred to Sanskrit This confusion, he said had justification. The vernaculars of South India whatever independence they claimed in respect of syntax, grammar and original matter, had to depend to a very large extent for their inspiration on Sanskrit Hence those who included Sanskrit when they talked of verna culars might well be excused He then explained the position of vernaculars in the present curriculum of studies in the Madras University as compared with that occupied by them under the old regulations and said that Sanskrit was in a more advantageous position than the vernaculars One thing that atruck him was the argument ndwanced in certain quarters that sufficient was being done for the study of vernaculars that made it compulsory for any candidate in the Intermediate to study vernscular composition or translation from a classical language. It was quite possible for the students to obtain 40 per cent of the number of marks in a paper on vernacular composition or translation with the expanditure of a slight effort on his part but at could not be pretended that for the development of a good style in those languages such as would facilitate the assumption of foreign ideas and know edge through them, any adequate provision had been made for them in the corriculum of studies. As a matter of fact no good prose or poetry in verpaculars was taught to the students exceptatew stray notels rewapaper and magazine articles just to enable them to score the required number of marks to pass the examination. He then refuted the arguments of those who decreed the system of enforcing on the students the study of vernaculars and pointed out that the managers of institutions did not pay particular attention to the study of these languages, had not assigned a

proper place in the subjects of study in the schools, and had not allowed them the same measure of respect which they accorded to other subjects. The remedy for this state of things was not to knock down the verusculars altogether from the carriculum but to suggest wave and means for their proper study. People who would pay particular attendtion to teach these subjects should be appointed and he said there were available a number of graduates and Masters of Arts who would be prepared to pursue with x-al not merely in acquiring knowledge of vernaculars for themselves but with great pleasure impart such knowledge to the learner in schools and colleges. How could they call a man fully educated, he asked, if he had not been aware of the rich treasures that his own language and literature could give him. Though it was contended that Tamil had not good literature, the mere poverty of literature abould be the reason why it should receive special attention at the hands of the University for the creation and improvement of that literature. He also said that the same facilities allowed for the study of vernacular lauguages in other provinces were not allowed in this Presidency. Speaking on the grouping of subjects he said that if a candidate desired to take up Tamil or Telagu in the B.A course he had to study in all three languages including Sanskrit and English but he could not take up mathematics or science which were of great practical value in these times. He then went on to say that provision had not been made in the colleges at Madras for the study of vernaculars even as they at present stood, and pointed out the necessity for making provision for the same. In conclusion he said that though the verpaculars of the South were not given a higher place in the curriculum of studies in the University let it not be said that they did not deserve such a place. He was of opinion that they should be given a compulsory aspect in the Intermediate examination and thereafter optional and if that was not feasible be would even accept as an alternative to have text-books prescribed for the study of vernacular composition or translation in the Intermediate.

How to improve the Tamil Language.

A public meeting was held recently at the Hindu Righ School, Triplicane, when Mr. P. Sambanda Modalar, A., E.I., Hijk Court Vakil, delivered a lecture on "How to improve the Tamil largaage" with the How'ble Mr. Jastice Sadasiva Ajyain the chair. The teachers of the Hindu High School and of other schools who take deep School and of other schools who take deep interest in the promotion of the Tamil language were present in large numbers. Mahamabopadhyaya Pandit Swaminatha Alyar honoured the occasion with his presence. There was a large gathering of students. The whole proceedings were in Tamil.

The lecturer began by saying that the Tamil language had been in existence two thousand years ago. It was at its zenith in the days of Chers, Chola and Pandia. It was not only the language of the country but also the language of the rulers. Poets and authors were encouraged by kings in aucient days. They had manyams and had no cares for their livelihood and consequently could devote their whole time to the study of literature and writing literary works. Hence rare and valuable works came to be written in those days. When the ancient kingdoms of Chers, Chola and Pandia were overran by the Maharattas and others. Tamil lost the paironage of kings. However, poetical and other works continued to be written by men who wrote such works for carning their livelihood, if not for the benefit of the people and the promotion of the language. To prevent decay of the language, the University made Tamil as well as other vernacular languages, compulsory in the curri-culum of studies. Even when Tamii was a compulsory subject, the knowledge of graduates in Tamil was meagre. In the present University curriculum there was no provision for Tamil-That being so, the knowledge of students in Tamil could well be imagined.

Tamil could be improved in various ways. Old works in Tamil written on cadjan leaves, etc., might be collected and published, as had been done by Mahamabopadhyaya Paudit Swamicatha Aiyar to respect of Manimekhala, Jivachintanent and several other works. Free libraries should be established in every nook and corner of the Presidency and Matadhipathis, some of whom had excellent works in their possession, should help in forming such libraries. The University should restore Tamil to its former place is the curriculum of studies. Text-books in easy style on morality and dharms should be written by great men and should be taught in classes. Draums, novels and atories in easy and elegan stale, should be style should be written for teaching morals to men and women. Books written in foreign languages must be travelated in Tamil. Foreign words might be introduced into the language to express new ideas or words and they might be coined to express the same ideas. It was a mistake to suppose that English would become the univereal language for the whole of India and there was no necessity to take care of Famil Tamil had autived after successive foreign invasions and so many vicessitudes and it would never die out, nutil all the Hindas of the South became converts and adopted foreign customs, habits manners and language

A University's Objects

A writer in the Energal Educational Journal having advocated that Universities should be made stepping-atones to commerce rather than to the professions the opin one of several wellknown men were invited, and Dr. Rach Behary Ghose whose name has been on everybody a lips in connection with his munificent duration to the connection with the munificent duration to a connection with the munificent duration to collect the connection with the munificent duration to

Mental culture, in my opinion, should be the chief end of University training I do not say that the University should not teach law or medicine or engineering but this cught not to be the principal aim of a University course A liberal education does not indeed teach a man the peculiar business of any calling but it fits him, in the words of a dis-tinguished writer, 'to perform justly, skilfally and magnanimously all the offices, both private and public, of peace and war ' As Cardinal Newman says a cultivated intellect brings with at a power and a grace to every occupation which it undertakes, and enables us to be more useful cit zens. There is a duly we owe to human society as such, to the State to which we belong. to the aphere in which we move to the individuals towards whom we are variously related. and whom we successively encounter in life , and a liberal education which is the proper function of a University, if it refuses the foremost place to professional interests, does but postpope them to the formation of the citizen

I should therefore make a course of general culture absolutely compaisory on all the actions of the University. I stated the greatest importance to it because I hold that such culture would be the scondest untroduction to a profes a onal training, and I strongly depressed the a place where people should be taught only how to sent their bread

"To rear up minds with aspirations and faculties above the herd," says John Stuart Mill, "capable of leading on their countrymen to greater achievements in virtue intelligence, and social well being, to do this, and likewise so to educate the leisured classes of the community generally, that they may participate as far as possible in the qualities of these septicits spirally, and he prepared to apprece ate them, and following in their steps: These are purposes requiring institutions of education placed above dependence on the immediate pleasure of that very multitude when the second of the seco

In my opinion the University should be open to men of all custes and creede. But its ecope should be limited to the control and guidance of higher education only

The provision for research work in Indian Universities at present is not at all adquate. I am of opinion that the higher audience degree abould be conferred only on those who have done some original research work I would abound a comparation of these degree, and make research work the only qualifying test for all higher audience districtions.

I would have both sports and symmetries In India, they should be organized by the University authorises I should make either sports or symmetries compulsory on all students of the University

I have no faith in meral text books Culture, however, in its widest sense, includes moral training. The personality of the teachers and the fore set by the older students are also important factors in the format on of character.

In my opinion, religion should have no place in the corribulum of the Indian Universities, I mean, Universities that are maintained by the Government But religion may be taught in Universities founded by a certain sect or a class, sq., the proposed Hindu and Mahomedan Universities

I approve of a residential University of the type of Oxford and Cambridge. And the reason as that in these seaks of teaching the true ideal of a University is zestously upheld, and they have produced and do still produce men who have that power of command which is born of time calture and pesterating insight.

Technical Education in India.

His I scellency the Governor of Bombsy came specially from Poons to Bombsy on the 5th sasiant in order to be present at the jubice celebrations of the Victoria Jubilee Technical Institute. when he gave an intrersting address on technical education :-

When we consider that in every industrial country-you may take Germany, America or England-they are turning out young men every year fully qualified to take important posts, the competition must be keen, but I believe that you will be equal to it. I have beard that the Indian young man has a disinclination for, and throke it rather derogatory to do, manual labour; he is disinclined to take his cost off and really put his back into hard manual work I am delighted to say from what I have seen this afternoon that I am able flatly to contradict that Whether there was a little extra energy put into it on account of the presence of His Excellency I am not very clear. The next time I come I shall come in some disguise and see how things actually are. It is perfectly true that competition is keen, but I do ask you not to be afraid of it. I want you to go forward with high courage and with ambition. And to tell you what I mean by high courage I will tell you a little story. I was going round another form of technical college, the Agricultural College at Poons, and my friend, Dr. Harold Mann, showed me the most admirable system under which they worked. At the end of my visit I said to him, 'How are the students doing ?" Dr. Mann replied, 'They are doing very well and work capitally, but when they come to the end of their term and when they have got their degree and should feel competent to go out and take up a job, and when I have six or seven i)be ready to give them, they say, 'No, I don't want that, I want Government service."

Now I want to say this perfectly sincerely to you. I think that shows a want of courses and a want of ambition, which I regret extremely and which I hope I shall never hear of again. I want you to take your opportunities with both hands; I want you to take every chance which is offered to you with high courage, the high courage of the man who has acquired practical knowledge of his profession, so that at the end of his term of work he may feel with satisfaction that he is honoured and respected by his fellow-citizens, 1 seems to me that it is a fair thing for me to say if I ask those young men who are just starting in the world to put their backs into it and to work really hard, so that they may be able to do something useful for their country. And I also think It is fair if they say in reply, "That is all very well, but what are you going to do?" I promise that the Government shall assist you, young men, in every possible way that it can. I am going to make an appeal in your behalf to the great masters of industry, not only in this Presidency, but throughout India, to give you, years; that, and I believe that you will allow by your character, by your high principles, and by your presided knowledge, that you are worthy members of the Victoria Jubiles Technical Indiator, and that you will be a credit not only to the Institute, and that you will be a credit not only to the Institute, but to that part of the lattice, but to that part of the lattice, and from my beart, let me give this less two to you—it comes from one who has had a good deal of experience of practical work in his lifest that the man who whether it is in his work or in the plays pate into bis work or play the even the comes in the life you will be the work of the comes of the presently terms of the comes in a seried citizes, and an hotoorshile greyleman.

(FOREIGN)

Barbarian Standards in Education.

In the past the identification of a sportsman with a gentleman has had great weight in the determination of social and educational values. Oaly in comparatively modern times did the association of "a scholar and a gentleman" seem plausible. Even now, prowess of the mind can seldom compete in glory with prowess of the body. The valuation of achievements current in our public schools persists, though with some abatement, among all sorts and conditions of men. But as mental skill becomes more and more the means of attaining that financial power which is the modern instrument of personal glory, it rises in social esteem. As menters, address, mental ability, and knowledge more and more determine personal success, intellectual studies become increasingly reputable. It might appear at first sight that the highest reputsion would attach to those abilities and studies which had the highest immediate ability for moseymaking. But here the barbarian standard relains a deflecting influence. To possess money which you have not made still continues to be far more honourable than to make money. For morey making, unless it be by loot or gambling, involved addiction to a business life instead of the life of a leisured gentleman. So it comes to pass that studies are valued more highly as decorative accomplishments than as utilities. A man abo can have afforded to expend long years in acquiring skill or knowledge which has no practical use, thereby announces most dramatically bit possession, or his father's possession, of an income that enables him to lead the life of an indepen-

dent gentleman. The scale of culture values is largely directed by this consideration Thus, not only the choice of subjects but their mode of treatment in the education of the children of the well to do, is generally speaking in inverse ratio to their presumed ntility. The place or honour accorded to dead languages 18, of course, the most patent example Great as the merits of Greek and Latin may be for purposes of intellec tual and amotional training their predominance is not mainly determined by these merits, but by the traditional repute which has made them the chosen instruments for a parade of "useless culture

Though some attempt is made in recent times to extract from the teaching of the "classics" the finer qualities of the 'humanities' which they contain, this has involved a revolt against the " pure scholarship ' which sought to exclude even such refined utilities, and to confine the study of the classics to a graceful, skilful band ling of linguistic forms and a purely superficial treatment of the thought and knowledge contained in the chosen literature. It is significant that even to-day "culture ' primarily continues to imply knowledge of languages and literature as accomplishments, and that, though mathematics and nathral sciences enter more largely into the academic corriculum, they continue to rank lower as studies in the education of our wealthy classes blost convincing in its testimony to the forma tion of intellectual values is the treatment of history and modern Linglish literature Although for all purposes of culture and stility, it might have been supposed that the study of the thought, art, and events of our own nation and our own time would be of prime importance virtually no place is given to these subjects, history and literature, so far as they figure at all, are treated not in relation to the life of to-day, but as dead matter. Other subjects of strictly vital utility, such as physiology and hygiene, psychology and sociology, find no place whatever in the general education of our schools and Universities, occupying a timid portion as "special" subjects in certain professional courses Pedagogues sometimes pretend that this exclusion of "ntility" tests for the subjects and the treatment in our system of education rests upon sound educational principles, in that, ignoring the short range utilities which a commercial or other " practical" training demands they contribute to a deeper and a purer framping of the intellectual faculties But having regard to the part played by tradition and ecclesiastical authority in the establishment of present-day educational systems, it XIX

cannot be admitted that they have made out a serious case for the appraisement of studies according to their human values Probably our higher education, properly tested, would be found to contain a far larger waste of intellectual 'efficiet oy' than our factory system of economic efficiency And this waste is primarily due to the acceptance and survival of barbarian standards of colture, imperfectly adjusted to the modern corditions of life, and chiefly sustained by the desire to employ the mind for decorative and recreative rather than for productive or creative purposes Art, literature and science suffer immeasurable losses from this mis government of intellectual life The net result is that the vast majority of the sons and daughters even of our well to do classes grow up with no trained ability to use their intellects or judgments freely and effectively, and with no strong desire to attempt to do so They thus remain or become the dupes of shallow traditions, or equally shallow novelties. under the gaise of scientific, philosophic, eco nomic, or political principles which they have neither the energy of mind or the desire to test but which they permit to direct their lives and conduct in matters of supreme importance to

themselves and others As education is coming to take a larger place in the organised occupations, and more time. money, and energy are claimed to it, the necessity of a re valuation of intellectual values on a same basis of humanism becomes more exigent than ever For there is a danger of a new bastard cul ture springing up, the product of a blending of the barbarian culture descending by invitation of the upper classes, with a too parrowly philitarian standard improvised to convert working class children into cheap clerks and shopmen High Schools and local Universities are already victims to the metalliance between ' culture and "business' and the treatment of not a few studies, history and economics in particular, is subject to novel risks .-- Nation.

Indian Students in England

The report of the work at 21, Cromwell Road, lat April 1912 to Stat March 1913, has been published

There has been a substantial progress in the work and usefulness of the house during the year under review,

The number of resider to who have come direct to the house from India has greatly increased, but there are many whose friends in this country have already made arrangements for their anonmodation elsewhere. In these cases they frequently risk the house for advice after a few days, and an effort is rule to keep in touch with those who remain in Lundon. Opportunities for example, the second of the latest la

The sociative accommodated in the house also stirt decide operatanies to which students are invited, and the Indian members belonging to these sociaties number nearly 300. The rooms are often lent to other societies for their meetings are often lent to other societies for their meetings quitering intended, one half in Jaly noder the presidency of Lurd Ampthill, to which visitor from India, distinguished English people and Indian statedty, were invited and the other a Christians party given specially for the Indian numbered about 12,000.

Among the other organisations connected with Indiae stodents, the work of which is carried on at 21, Cromwell Road, is the Distressed Indiae Stedents' Aid Committee. This Committees has now been established for over two years, during which time about 48 stedents have actually received financial savistances. It has enabled those responsible for the house to deal with most of the cases of real distress which have come before their conten, although there have been their content, although which, owing to the circumstances of the case of the content of the case of the content of the case of the content of the case o

During the year a Law Library for the use of Indian students has been formed at 21, Cromwell Road. It had its origin in a handsome donation of law booksand reports presented by Sir Thomas Raleigh, K.OS I., to which have been added other law books, obtained by purchase or from the India Office, calculated to be useful to the atudents in studying for their examinations and in prosecuting legal researches. Suitable locked book-cases have been erected in the lecture hall, which has been furnished as a reading room but is still available for meetings. The Managing Committee desire to acknowledge gratefully the assistance they have received from the Secretary of State for India in grants (for the purposes of this Library) of which some portion still remains to he expended. The Library was formally opened on the 13th February 1913; Mr. C. E. Mallet occupied the chair on the occasion and Sir Thomas Baleigh addressed the meeting. In connection with this Library two mosts have already been held for the discussion of legal cases. The Managing Committee consider this acen opportunities for legal argument should be of greak services to the students in the precise of their profession. They hope to contines the mosts if the students maintain an interestin them and attend in sefficient combers. For the charge of the Liw Library two Indian students have been appointed librarium.

The Law Library is therefore now an established institution, and represents a substantial attempt to provide the students with facilities for their legal studies. Some complaint approximately some complaint and previously been made of the want of such helps. It remains for the students or how their respectively of the facilities now aff orded by making full use of the Law Library.

Two tenns courts have been acquired during the year in Pelbam Place, South Kensington, and as these are bard courts they can be used even during the winter. They have already been considerably used, and it is anticipated that during the ammer they will be very popular.

Efforts have been made to find homes for students when they require them, and this has generally been possible.

The total number of different statedards who have resided in the bosse during the year has been 224, of whom 124 came straight from Iolia. This does not represent the actual number of the state of the

Teaching and Examining Universities

In connection with the prosent conhortery in our country regarding Taching and Residently In Control of Interesting on the 7th of May last, who be found interesting and useful. The Lording University Commissioners with the Lording University Control of Residently Interest the external and the fromers that the external and the fromers that the Control of Residently Interest Control of Resident

They recognised that the highest form of University education was that which students who devoted their whole day to instruction and research, were enabled to receive from University professors, and that the examinations they were required to pass should, as far as possible and under proper safeguards, be based on that instruction. But they also recognised, what experience abundantly confirmed, that there were thousands of students who, for many reasons could not obtain that kind of education which was ideally the best, and they rightly regarded it as their duty to watch over the interests of these less fortunate students, who generally belonged to the poorer classes, and to take care that, in accord ance with the traditions of the University, some other road to the higher education and to a University degree might be kept open to them To say that the graduates of that University, holding those views, set up examinations rather than education as their ideal was to misrepresent them, and showed that the Commissioners had There was incorrectly interpreted their views nothing necessarily incompatible between the tdeals of the two sides of the University, they were supplemental, and the majornty of the members of the former Commission concurred in that conclusion. The University was, and must remain, unique, for the conditions of the higher education in London were different from those of any other city, and they could not hope to attain to the perfect ideal suggested in the Commis sioners report by the endeavour to reconstruct it according to a German or any other model Indeed, there was nothing to which he took stronger exception than the attempt to germanise our education But when he saw the vast num ber of eager students who came there annually to receive the reward of their diligence and progress in their search after knowledge when he reviewed the long list of eminent teachers under whom so many of them had studied, when, too, he recalled the contributions to the advancement of science and learning which proceeded from their research department and the names of the distinguished men and women now living who looked with pride and satisfaction to the University as their Alma Mater, he failed to recognise their University in the fundamentally defective institution described in the pages of the report-

THE UNIVERSITIES.

Professorshins

The Syndicate of the Madras University is inviting applications for University Professorships to Indian Economics on Rs. 10 000 per annum and in Indian History and Archaelogy on Rs. 500 per mensem rising to Rs. 1000 by annual increments of Rs. 40

Proposed Buildings

The Government consider that the University Labrary should be built on the land immediately to the west of the Senate House and between that building and the Buckingham Capal The whole of this will be wanted for the library and its apportenances, and places elsewhere will need to be found for the tiffin rooms, motor garage. etc. which now stand there A fresh site in another place must also be selected for the Revenue Board's Laboratory which was proposed to be built there Orders on these points and sanctioning the alienation of the above piece of ground to the University will issue in the Revenue Department. The design of the library building will be separately considered. Its chief frontage should be to the Walsyah Road and room should be left for extensions to the northward The Syndicate is requested to furnish Government with full particulars of the University's needs in the way of lecture rooms, etc., to be attached to the building

The Grants

The Government of Madess had forwarded to the Government of India, with remarks, the proposals of the Seasie of the Madess University regarding the atthiction of the recurring great of Rs 5,000 and the non-recorning great of four latte given by the Government of India to the Conversion of the Government of India to University of the Government of India to University of the English of the Seasie for the expenditure of the Imperial great of the Seasie for the expenditure of the Imperial great of the Seasie for the English of the Seasie for the Seasie for the English of the Seasie for th

BOMBAY UNIVERSITY.

A New Prize.

The following are particulars of the proposal submitted by Bao Saheb Khimji Coorery, J. P., to the University of Bombay offering to endow a prize in the memory of the late Goswami Shree

Devkinandan Acharya, the well-known preceptor of the Vaishnavite community:--

This prize should be named "The Goswami Shree Devkinaudau Acharya Memorial" prize.

- (2) The amount of the prize shall be Rs. 100.
- (3) The prize shall be given away every year to the best writer of a thesis on any subject within the province of metaphysical reasonings embodied in "Aubhashya" compiled by Shrimsu Vallabhacharya.
- (4) The subject of the thesis shall be selected by a Committee appointed by the Syndicate and shall be advertised at least 6 months before the latest time allowed for the sending in of the papers.
 - (5) The competition shall be open irrespective of caste and creed and in order that Sanekrit Pandits not familiar with the English language be able to compete for the prize, option of writing the thesis in English or Sanskrit shall be given to the competitors.
- (6) All papers received from competitors shall be examined by an examiner nominated by the Syndicate and the candidate recommended by such examiner as deserving of the prize shall be awarded the above prize.
 - (7) The prize may be given in the form of books or purse, at the option of the recipient,
- (6) Should there be no competitors in a certain year for the above priss or should the papers received be, in the estimation of the papers received be, in the estimation of the saminer not deserting of any merit the amount of the prise payable for that year shall be held over any part of the the view of the prise payable for that year shall be held to see that the prise payable for the year together with the amount as which for the year lie which the prize is given.
- (9) Government, Promisory Notes of the momental value of its, 4000 hearing interest at 31 per cent, shall be endoubtering P.R., Khiraji per cent, shall be endoubtering the Recompting for the manufacture of the University of Bumbay for the manufacture of the University of Bumbay for the manufacture of the University of Bumbay for the house of the said Notes every year and out of the som of Res. 100 centred thereform R. 100 shall be R. 100 centred thereform R. 100 shall be and the said the sa

CALCUTTA UNIVERSITY.

An Appointment.

Professor William Henry Young of Liverpool, has been appointed Hardinge Professor of Mathematics at the Calcutta University.

Examination Results.

In the Preliminary Examination in Law held in June 1913, 7 students passed in the First Division and 252 in the Second Division.

TECHNICAL EDUCATION.

chicken at the typewriter business.

Typewriter Topics.
The Rehibston Office at Nashville.

The Resistant Office at Rasinization There is a new manager for the Remington Type writer Office at Nashville, T. C. Malone, the former manager, was recontly promoted to the managership of the Remington branch at Jacksonville, and Mr. Russell, his accessor, is no

Razzell begaz with the Remirgton in 1892, as a mechanism 4 their Glucapo edite, suder Siles W. Crandall, and a few months later he west to Onaba as a meshanic under F. E. Van Baitht, now a Vice-president of the Remirgton office at this print. Their followed four years, from 1900 to few manager of the chemical department of prints washes Remirgton office, and a shorp-grade washes Remirgton office, and a shorp-grade which was the chemical department of prints are such as the chemical department of prints which Mr. Razzell west to Atlanta.

THE TINDERS COD.

The Underwood typewriter is erer wission, and we herewith refer to the spheadd resiliand blained by the state of the spheadd resiliand to the state of the state

In all the contests very high speed records were made, such as have never been obtained is former competitions.

former competitions.
The Madrae Shorthard Writers' Association

A Correspondent writes—With the publication of the last zene of the Fort Sr George Gattle, which contains the results of the advanced gude in the aborthand examination the results are complete, and it is therefore time that the shorthand public are made awars of the result are

of the Association in the three grades, Elementary Intermediate and Advanced Of the 10 that were sent up for the Elemantary 6 have come out appressful with four in the first class. In the Intermediate, 14 have succeeded out of 20 sent up, with one in the first class and that one heads the list of successful candidates in Madres In the Advanced two bave succeeded out of 13 that sat for the examination Though the Advanced results are somewhat disappointing still it is a matter for congratulation that out of three successful candidates in the Madras centre, two are of the Association

YOUNG MEYS COMMERCIAL UNION

An ordinary meeting of the 'Young Men's Commercial Union' strached to the Government School of Commerce, Calicut, was held on Wednesday, the 3rd September 1913 with Mr S S Gonalakrishna Aiyar BA LT Lecturer, B G M College Calcert in the chair Mr N M Rama Alyar, Assistant Govern ment School of Commerce, delivered a lecture on 'The Shorthand Alphabet'

After a brief opening speech by the Chairman the minutes of the previous meetings were read and passed Then followed the interesting lecture by Mr. N M Rama Argar The lecturer divised his discourse into three main divisions, vis a brief account of Sir Isaac Pitman s life, his remarkable personality and his untiring efforts to spread his new system then in its babyhood, and how he was ahead of his times , secondly the alphabet proper wherein he dwelt at some length, going into the various requisites of an ideal alphabet, and established the superior claims of the phonographic alphabet over the English alphabet as being more simple rational and scientific than the latter and thirdly a few hints and pieces of advice which specially ap pealed to beginners Then three of the student members of the Union came forward, each with a short speech

The fifth stem of the programme the Chairman e concluding speech, was as long as that of the lecturer s and was of an absorbing interest to the audience The Chairman had quite a large store of information, the serious part of his speech being tempered with many a choice piece of hamour.

Reviews and Notices

LITERARY SELECTIONS FROM NEWHAN EDITED BY A SISTER OF NARE DAME (LONGHAMS GREEN

& Co) 1s 6d

This volume of selections from Newman is one of the best books in Longman's Class Books of English Literature A study of Newman s writings is of the atmost value to every student of English style and we are glad to see Mesers Longmans, Green & Co afford a very good opportunity for it by this handy volume of selections. We are immensely pleased with the passages that have been selected, as all of them have a fine literary flavour and are eminently suited to the kindling of a genuine taste for literature in the vonng student. The volume includes some of the best portions of the Idea of a Universit; and the Historical Sketches The editor has steered clear of the great temptat on there is in dealing with Newman, of entering into the religious contro versy with which he is insenarably associated The notes are judicious and to the point and we should arge with great pleasure its introduction as a text book for the Intermediate Examination of our University

COMPOSITION FROM ENGLISH MODELS PARTS I & II LOITED BY E J KENNY (EDWARD ARNOLD

& Go) le & le 6d Mr Kenny has followed quite a new method

in his treatment of the subject of composition Taking the well known classification of prose writing in relation to its aim, persuasion, narra tion exposition and description, he gives speci mens under each of them, the specimens themselves being followed by a number of valuable exercises There are also selections devoted to dialogue oratory and letter writing The study of models, with special attention to the aim they pursue cannot but be productive of very good results, in giving a practical knowledge of composition

LATHER GREGORY, BY PERCIVAL WREY, MA (LONGHANS GREEN & CO) 2, 6d

Mr Percival Wren has succeeded in writing a very entertaining poyel in his Father Gregord The prelade to the central story is strikingly emotional and deals with a tragedy of great pathos There are a large number of chapters in the book devoted to a delineation of a number of undescrable types in Anglo-Indian society It is hoped that the author's love of caricators has got the batter of trath, otherwise the reader will be justified in holding rather a low opinion of Anglo-Indian society as a cless. There is a of the control of the control of the control of the of love in the first part and these off, yet the first part and the control of the control will prove intreading reading to all acquainted with the social couldiness of Anglo-India.

We had to draw attention in our review of the anthor's last volume of Sction, Dew and Milders, to his lamentable want of sympathy with Indian life. The author's restriction of his theme to Angle India has saved him from that danger in this book, but one could see traces of it in the only chapter in which Indian characters are introduced, at the very beginning of the book. Mr. Wren ought to learn the very desirable lesson of not offering gratuitous insults to Indian feeling, if he expects to flourish as an author in this country. It is difficult to see what pleasure he derives in imagining Indians with an impossible batred of Europeans. The B.A. bookingclerk of Kondab, we are told, 'entertained a most bitter batred of those who had given him a free (!) education and theu omitted to see him suitably rewarded for accepting it.' He does not know "why God made panthers, Pathans and Sahibs." And when he closes his eyes he 'resumes his favourite day-dream of wrecking a train full of Europeans-all gazetted civil officials for preference.' We should like to assure Mr. Wren that such monsters of Indian graduates, exist only in his imagination. And the sooner he is disillusioned of such provoking beliefs, the better will it be for himself and his readers.

THE BRITARNIC QUESTION, BY RICHARD JERS. (LONGMANS, GREEN & Co.) 1s. 6d.

The author, a well known writer on Imperial problems, discusses suborately in this volume the real meaning of the term Imperialism, and above show there are various aspects of it which constitues cross nos another. There are important to the constituent of the

bringing the Government of India more and more under the influence of native opinion; and the policy adopted by the Ministry of tightening the imperial reius over the Victroy.

The ideal of Britannie union has had a wonder fully rapid growth, during the last two decade and more specially since the union of South Africa. A discussion of the various phases which this ideal may assume, must have some practical force in shaping its fator. We commend this book for careful study by all students of British politic careful study by all students

ELEMENTARY ALGEBRA, VOL. II, DY GODFREY AND SIDDONS (CAMBRIDGE UNIVERSITY PRESS). 3s. 6d.

This volume deals with the following topics :-Logarithms ; Ratio, Proportion, Variation ; Surds and Irrational Equations : Progressions : Gradient of a graph, Rate of change, Derived Functions; Integration. "Limits" and the ideas connected with a converging geometrical series have been treated with great care, so that a student going through this book cannot carry away incorrect notions of infinity and limits which will have to be got rid of afterwards. The book also provides a gradual and leisurely approach to the elements of calculus. This subject, vis, the elements of calculus' is considered in this country, as was done in England come ten years ago, to be too difficult to be taken up in the High School pay even in the Intermediate course; whereas one, who goes through this book, cannot fail to realise how easily and successfully the first notions of calculus can be taught to an average boy of fifteen or sixteen The authors say in the Prelace that 'Vols. I and II of Elementary Algebra corer as much of the subject as is likely to be learnt by the pupil of average ability during a full school course." This implies that in England, first notions of calculus, are included in an ordinary school course. How different is the situation here, in Madras, where even logarithms are considered to be too much for an ordinary student of the secondary school who specialises in Mathematics P

These two books contain merely selections of exercises from the respective authors' bigger books, viz., 'Modern Arithmetic', Part I and 'A School

⁽a) A JUNIOR COURSE OF ARITHMETIC, ST SIDELY JONES. (MACMILLAN & CO. LID.) 1: 6d.

⁽b) Examples in Algebra, by H. S. Hall-(Machillan & Co. Ltd.) 2s.

Algebra, Part I' The bigger books are well known as good school books, and teachers, who prefer to give their own oral explanitions and to place in the hands of s'udents only a mere book of exercises, will find these useful as students' books. The books are also priced them

GROWETER FOR SCHOOLS, VOL. I-VI, ST BOUR CHARDY AND PERSONS. (BELL & Sous). 4: 64

Volumes I.—V hate been reviewed in a previous issue of this magazine. The book before us centains in addition only Vol. VI which deals with solid geometry and plan and elevation. The treatment is not in the stereotyped Youldean order, but easy and instructive methods of proof are given and the subject itself is developed in a low and interesting manner. There are many attributes the process of the property of the property of the process of the process

TWO BOOKS ON ZOOGFOGRAPHY

- 1 EARTHWORMS AND THEIR ALLIER, BY FRANK E. BEDDARD, F. R. S. F. R. S. E., PRO SECTOR OF THE MODIFICAL SOCIETY OF LONGON, pp. vi+150, WITH 13 ILLUSTRATIONS (CAMBRIDGE UNIVERSITY PRES 1912) 1s
- it THE WANDERING OF ANIMALS, BY HARS GADOW, F R S, LECTURER IN ADVANCED MORPHOLOGY IN THE UNITERSHIP OF CAMBRIDGE, Dp. vi + 150 with 17 Mars (Cambridge University Parss 1913), 14.

These books belong to the excellent series of cheap Manuals of Science and Literature sessed by the Cambridge University Piess, and deal with the geographical distribution of animals the first of the Earthworms only and the second of all animals in general

1. This contains a return as it were of the author's great Moneyaph on the Oligochouts, viewed in the light of recent researches in that group made by himself and by Contnenta, American and Australian helicular of the Contnenta of Australian helicular of the Australia of the Work of the Wo

Parthworms and on the relation of the external features of these worms to their habits and environment Then a small chapter on the serve organs and senses of the Earthworms is followed by chapters on their 'Ranges,' 'the perigrine Earthworms and the Farthworms of Oceanic Islands In these chapters are distinctly shown that Farthworms were all originally aquatic forms. that terrestrial forms originated more or less from these and that some of squatic worms in existence now, are more or less a reversion as it were to the original type, and we note herein that Mr Beddard has changed his original view that the 'Perichoet's were the most archaic forms' whereas here he holds them to be the most modern forms of the Farthworms Chapter VIII gives an account of the most important barriers for the despersal of Earthworms, and the facilities of their migration to fresh regions. The last chapter of the book deals in a general way, with certain problems in roogeography, as illustrated by the distribution of the various families genera and species of Earthworms, of which, the presence of terrestrial Earthworms in some of the widely separated islands of the Southern Hemisphere, the hitherto considered 'Oceanic' islands throws immense light, on the probable non volcanic origin of these islands, and from the curious relationship existing between the worms inhabiting S. America, Africa, Indo Apatralia and New Zealand, Mr Beddard asserts boldly, in spite of the views of others of the former existence of a wide northward extension of the Antarctic continent connecting together all the existing zongeographical areas, and this land is held by him to be the original home of the Oligocheets Though scientifically accurate, the book could be of use to advanced students of Zonlogy only A ready referencer in the form of a synopsia showing the classification of the Oligocheta, with the names of the chief families and genera would have greatly facilitated the quick understanding of the text, and a zoogeographical map or two of the Earthworms would have been a valuable addition fo the text

2 Its not possible to do puting to such as extensive subject as the geographical distribution of animals within the small limits of a pocket book of 150 pages of large type, and Prof. (lidow has to be congratulated on the able way in which he has brought out clearly all the sainst features of such a wast subject in his 'Wanderings of such a wast subject in the vote in as follows. The Benchmark of the work is as follows: The Benchmark of the work is as of geographical distribution, showing the gradual progress cade to the study of geographical distribution.

bution by various zoogeographiets, a consideration of the lines along which they worked and the views propounded by them, and Prof. Gadow adopts in the main the 'Scaleter-Wallace' rigions, Chapter II deals with the 'Oecological' study of animals, a study of the chief homes, and how such homes with their various effects of climate, etc., influence their inhabitants, and the interdependence of animal and plant life there. Then follow two short chapters one on the needs for spreading, on the modes, means and rates of spreading and the other on the chief causes that bring about the rich or scanty faunas of various localities. Chapter V is on the ancient geography of the Earth—the former configuration of land and water in various periods of the Earth's history. This chapter is well and originally illustrated with a series of disgrams and maps indicating the hypothetical configurations of land and water in successive geological epochs. Chapter VI deals with the distribution of a vast number of various groups of animals in space and time, and being one of the author's specialities attention is strongly directed to the vertebrate fauna. The author has succeeded to a remarkable degree in his attempt "to trace the animals back to their original home, to follow their wanderings, successes and failures, and the changes they have undergone by adaptation to new and altered environments, and to account for the composition of faunas of various countries and seas." The book is clearly and well written and possesses the merit of being concise and complete, and forms an admirable introduction to Zoogeography and we strongly recommend it to all students of Biology. A geological time-table, a good Index and a bibliography add to the usefulness of the book.

REGIONAL GEOGRAPHY OF THE WORLD IN TELLOU, PART II, ASIA, EUROPE AND BRITISH IELES; PART III, AMERICA, AFRICA, AUSTRALIA, RTC, BY M. SITARAMARAO, B.A., L.T., HERDMATER, VERRERALINGAM HIGH SCHOOL, RAIMMUNDER,

It is matter for some School, RIABAUPERF,
It is matter for some School that to meet
the growing demand for interpret property for the growing demand for interpret property for the growing demand for the continents in the
books. The irrational of the continents in the
The author has based on natural divisions. The strategies in the subject intressing. Indicate pains to
make the subject intressing. Indicate pains to
make the subject intressing. The state of these
marking was morry the books after of these
materiatory. To start with, the book consists
may statements that are wrong. We are pot-

able to follow the author when he says that "Europe is, in size, the smallest of all the continents" and that "it is in the midst of the land portion or surface." A reference to the table given in page 10 of the book itself will show that Australia is the smallest continent. Every school boy will laugh at the statement that Europe has the ocean all round (ಮಟ್ಟುತು ಕಮ್ಮುತ ಮುಂಡು ಟಡೆಕ, page 63 of Part II) It has recently been proved by Dr. Swen Hedin that Tibet is not a plateau. Though the author refers to this great explorer in his book, he has failed to note his discoveries. The description of the relief of North America is far from satisfactory. The western mountainous area of this continent is known by the name of Cordilleran area and consists of three distinct mountain rarges. The author fails to note that the Pacific ranges are divided into the outer and inner ranges. The names might have been avoided while the build of the country ought to have been accurately described by a reference to the orographical map. We looked in vain in the book for the natural divisions or regions of Australia. In speaking of political divisions of this continent there is absolutely no reference to the " Northern Territory."

Want of distinct "human element" in the treatment of the subject is another sad feature of the book. It is impossible to interest children if this element is neglected. Again what children in the lower classes want is not the mass of details but the statement of general principles explained by inductive methods. With the translation of technical terms again neither the "modern" school nor the "classical" school would be pleased. The author speaks of charts and హరోజుల జాప్రా-table of temperature and rainfall but prefers to treat goodbess (climate) ఎక్కుప్లాడు (explore), మాడ్యస్థాక్కరు (manufactore) as words which have passed into correccy in the Telugu language. Trade winds are called white రవస్తు though years ago it was shown that the word trade in "trade-winds" means steady of constant and has nothing to do with my 2000 The maps in the book are a disappointment. The pupil can learn nothing from the map of Asia on page 10. Some of the maps have no key to explain the shading (page 133.) The shading in some of the maps gives ideas different from what the author intended (maps on pages 16s and 166). We mention these things, not with the view to smother honest attempt on the partol

indiceasus acqueies to bring out better class of text books in vernacular for children in the lower classes of our schools but to show the men engaged in the work that if they do want to successfully compete with English firms they must bestow more care in writing the text books We wish also that writers in Telugu will try and avoid the broad final ending common among the Telagus as మార్యఫాక్సరు క్లయిమీటు, ఆధెన్సు (Athens), హాకృరు (barboar), గ్రీసు (Greece), etc

EAST STORIES FROM INDIAN HISTORY (TAMIL AND TRUCK EDITIONS) BY E MARSDEN B & (MAC MILLAN & Co LTD) 10 as & S as

Mr Marsden's English edition of the Easy Stories is a book very popular with school children and we are glad that Mesers Mac milian & Co bave now brought out Tamil and Telaga editions of this book. There are about 50 stories of persons and events prominent in Indian History told in very pleasing and attract ive manner. One redeeming feature of these stories is that to the characterization of persons. the author is to a large extent impartial Aurangzeb and Sivaji for example are described in their true colours. Their virtues are more pointedly described The Tamil edition is far more satisfactory than the Telugu The langu age is very charming and the book does not appear to be a translation. We are sure that this book will be widely read in the schools, more for the sake of the language than for the history contained in the stories The Telogu edi tion reads in some places more as a translation than an original book. The books are profusely illustrated and the illustrations are very good We wish the books were issued in two parts

Andian Educational Plotes MADRAS

Training of Teachers -lu June 1912 Govern ment approved the proposal to tra n an extra batch of students of the lower elementary grade in certain Government training schools for masters and sand tioned the employment, in each of them for a period of twenty two months from 1st June 1912 In a letter to the Government dated the 26th June Sie Alfred Bourne, the Director of Public Instruction pointed out that the demand for elementary teachers on account of the large increase in the number of elementary schools under the management of Local Boards to meet which the above proposal was sametioned has been increasing and it will it is expected

become greater year after year The supply be said required consequently to be increased. He requested that a similar provision be made with effect from or after the lat July last, in certain Government Training Schools for the training of a further additional batch of about 695 lower elemen tary students, and for the admission into the Government training school at Nellore of an extra batch of 40 higher elementary students for a course of twenty two months. The Director also strong y supported a proposal to open a temporary additional training school of the higher elementary grade at Amalapur In their order upon the proposals Government state that the Government approve the proposale of the Director of Public Instruction-(1) to tra n an extra batch of 695 students of the lower clomentary, and forty students of the higher ele mentary grade at selected Government training matitutions for a period of twenty two months and (2) to open a temporary training school at Amalapur in the Godavari d strict for a similar period to train e guty students-forty of the higher elementary, and forty of the lower elementary grade They further state that as it will not be possible to begin regular work before the lat September next provision for six months wis. Rs 60 374 will be sufficient for the current year. This amount will be met from the special Imperial grant of 23 lakhs for education provided in the Civil Budget Estimate for 1918-14

Sarah Tucker College -The ladies of the Sarah Tucker College Palamcottab, and their friends and Tucker College Talamcoutan, and uner arrane and the well waters of the College, assembled in front of the College where a long and interesting programme of songs drills, rectained selo, was gone through The Rev E S Carr of the CM S prended while Mrs Loane kindly distributed the prizes which were numerous and bandsome. The very first item was a greeting song which was followed by a reading and prayer by the Rev Mr Davadoss

The Principal Miss Islierd then read the Approal The Chairman in concluding his remarks thanked

Mrs Loans for so kindly distributing the prizes and those guests who had availed themselves of the opportunity for showing their interest and sympathy with the College by their presence The interesting and pleasant function came to a

close with the singing of the National Anthem

Physical Training Classes -A circular has been assued to the Correspondents European Schools Madras by Mr J H Melville Inspector of Lurope an and Training Schools Madeas intimating to them that physical training classes will be held separately for male and female teachers daily and that teachers should attend at least twice a work The building rented for the purpose is fitted with electric light and lane. It is proposed also to provide baths. The classes will commence as soon as possible after receipt of the names of those willing

to attend and will probably continue until the end of March. At the end of the course a practical examination will be held, at which the candidate's instructional powers will be tested. Certificates will be issued to teachers who have attended the classes regularly and who satisfy the Inspector at the end of the course The instruction will be based mainly on the syllabus of physical exercise for schools assued by the English Board of Education The Instructor engaged has had considerable experience in training both male and female teachers. No fees will be charged, the object of starting the classes being to enable teachers to receive practical instruction on modern lines in this important anhiect.

The Teachers' Association, Madura - Under the auspices of the above Association, a lecture was delivered by Mr. A Govindaraja Mudeliar, BA. LT. Headmaster of the Soursehtra High School, on Wednesday, the 17th September 1913, at 6 r.w. There was a large attendance of teachers Owing to the unavoidable absence of the Hon'ble Mr. Sriniyasa Sastriar, who was to have presided on the occasion, M. R. Ry C. Narayanusami Aiyar, BA, Headmaster of the Sethupathi High School, was

voted to the chair. Introduced by the learned Chairman. Mr

Mudebar delivered his address on "The Place of B Group subjects in the S S. L C Scheme." In the course of his eloquent address Mr. Mudshar ead that it was a truism that populs of the Sixth Form took no interest in the study of Indian History and Geography, inasmuch as they were not compulsory subjects under Group "A" and that even Headmasters winked at the low marks obtained by their pupils in those subjects in the class and terminal examinations. Headmasters could not be unduly savere with their boys lest the latter should seek admission into other schools, and thereby deminish the strength as well as the fee income of their institutions. Further, how could a teacher make his pupils take interest in a subject when they had sworn. as it were, to take no interest in that subject. Mr. Modeliar, therefore, suggested that Indian History and Geography could well be omitted from the timetable of the 6th Form; for, grinding in these subjects from the Fourth class of a primary school to the 5th Form of a High School for a period of six years should be enough to give a boy a sound knowledge of these subjects for all practical purposes, and the time thus saved could well be devoted to the teaching of English or any other subjects in the study of which the boys take a genuine interest. A year's further study of Indian History and Geography in the 6th Form could not add much to a pupil's knowledge, especially as under the present S S. L C, scheme the time spent on these subjects was sumply wasted, Moreover, self-interest would induce no pupil to prefer the "B" Group subjects to the "A" Group ones, or to pay at least equal attention to both would certainty devote all his attention to the study of "A" and C" Group subjects, and try to score as many marks as he could at the public examination

in those subjects. Mr. Mudaliar also suggested that the much maligued vernacular could, for reasons pointed out by him, be transferred to the subjects of group "A."

The address over, there was a lively discussion of the subject by some of the teachers present. The Chairman then made a few remarks. With a vote of thanks, proposed by the Secretary, to the lecturer and the Chairman, the meeting came to a close at about 7-15 P M.

Pittapur Raish's College .- The Hon'ble Mr. P. S. Sivaswami Aryar, c s.r., c r z , presided at the prize-distribution at the Pritapur Bajah's College. The function began with the reading of the Committee's report on the work of the College in 1912-18 by the Principal and Secretary, Mr. R Venkatrstnam, which showed that there had been a considerable R Venkatratnam. rise in the numbers on the rolls during the year. The income from fees amounted to Ra. 33,766. The total expenditure was about Rs. 44,870 The excess expenditure of about Rs. 7,000 and Rs 4,450 invested in buildings were generously provided by the Raish, the Trustee and Manager.

The President distributed the prizes to the several students and made a speech in the course of which he said that the Rajah's College was a premier institution worthy of location at the headquarters of the district. There was hardly any institution in the Presidency comparable in strength or other respects with this among those maintained by indigenous agency Cocanada owed much to the Rajah, for there was not a public institution which he had not laid under deep obligation by his generosity and assistance. He had a doubt, whether it was fair to throw all the burden of the Collegeon the Rajab. Surely, the citizens of Cocanada had to recognize the claims which this useful institution had on their liberality and he was sore they would do it if the Rajah would only permit them. The public might institute scholarships to enable students to carry on their studies for the degrees, found chairs, afford better accommodation to the increasing number of students and so forth would be a wise generosity on their part to help students to pursue scientific study or scquire proficiency in any special branch of learning. The Principal referred to the proposal to start technical classes as a secondary course in the institution. It was desirable that a'udents should be encouraged to take up such courses of study which would give them good scope not only for earning a decent livelibood but also for being useful to their country. It would be worth while, if the public, the merchants, the lawyers, and the landlords awarded scholarships and sent students to the Bombay College of Commerce, the training in which would be helpful for work in banks and in co-operative credit societies which were fast springing up. As regards moral culture of students in this institution he said that states or attoents in this institution be said unstabled advantage of the influence and example of their Principal, Mr. influence and example of their Principal, Mr. Venkstaratnam Naudu and the Rajah of Pittapuram, who was its Manager and Trustee He hoped students of this institution who had so many advantages of moral and intellectual culture would grow to be good cutzens of the world

The Virealingam Poblic Library. The Anniversy of the Virealingam Poblic Library, the best of its kind in the Telaga districts was celebrated with great pomp in the local Town Half on the 9th and 10th instants. Hr G V App Rao 2t, Private Secretary to the Allahaman Virealingam of Virealingam

Sourablita High School —The Masagung Committee of the Sourablita High School are making vigorous efforts to collect funds for the erection of a new building to meet the growing needs of the institution. The Building Find new amounts to Re 31,000 and the Committee hope that before the School of the Committee the School of the Committee of the School of the Committee of the School of the Schoo

Classes in Domestic Economy -The Government of Madras bave approved the proposal of the Director of Public Instruction to rent a building at Rs 175 per mensem for two years for the purpose of holding classes in domestic economy, physical and manual training for European Schools The Direc tor has been requested to expedite the nomination for the appointment of Instructor of Physical Training, which is still pending with the Inspector of European and Training Schools. As regards the menial establishments proposed for the domestic economy and physical training classes, the Govern ment consider that one peon should suffice for both the classes since they are to be held in the same building and that it will be enough to pay him Bs 8 They accordingly sanction the employment as a temporary measure for a period of two years, of a kitchen boy on Rs 10 per measem for the dementic economy class and a peop on Rs 8 per measem for both the domestic economy and physical training classes

A Tascher's Guild in Manijasium.—A medicing of the teacher on Manijasium was half and in Noble College Ball under the presidency of the Rev W O Fenn M. A. Frincipal of the College on the 13th mateut, for establishing a "Teacher's Guild' The Association is intended to include all teachers of the place serving in the yearons level partners of the place serving in the yearons level gatering the state of the wrather fairly large, congardening the state of the wrather.

The proceedings commenced with the introductory remarks of the President who dwell upon the need

of such an Association, in order to focus the opinion of the teachers upon the various educational topics and to better the material prospects and states of the teachers by representations to the Government or other authorities when necessary. There were a sumbur of other speakers who spoke upon the objects of it is association. The name of the Association of the Association of the South Jedina Teachers Association.

The mesting thereupon proceeded to adopt a constitution and to elect diffee bearers for the current year. The proposal to silliate it to the South India. Teachers' Canon was put off to a subsequent meeting. The meeting the meterist the meeting the meterist for meeting the meterist for the meterist to the chair for conducting the proceedings with sympathy and success.

Pachanyappa's College Historical Association— Under the suspices of the above Association, the ionangural address was delivered in the Pachanyappa's Hall by Mr. A. Rangaswami Anyangar, B.A., B.L., with the Hon bie Mr. B. N. Sarma in the chair The subject of the lecture was the 'Evolution of Council

subject of the lecture was the 'Evolution of Council Government'
The Chairman in introducing the lecturer said that he was well known in Southern India. Being in the newspaper office he must have studied the

subject with great care and deliberation
The lecturer who on rising was enthusiastically
cheered, gave a very interesting description of the
growth of Council Government in the Colonies and

in India. With a vote of thanks proposed by Mr K. Ramanuja Charner, President of the Historical Association, to the lecturer for his luminous lecture and to the Charman for his practical suggestions, the meeting terminated

The Pandithorai Theyar Tamil Library, Salem -- The opening ceremony of the above Library was colebrated recently in the Salem College Hall with Bar Bahadur T N Diragnanam Pills, in the chair Among those that graced the occasion with their presence were the Hon'ble Mr C Vijisrsgavachariar, the Hon'ble Mr. B V. Narasimba Aiyar Mr Spencer, A Shutie, the President of the Pandithorsi Memorial Commuttee and several other gentlemen Mr T S hatsraya Ayar, Secretary of the Committee and Tamil Pundit, Salem College, made an elequent speech in Tamil acknowledging the help given by several gentlemen both in the form of donation of money and in the shape of gifts of books, appealing to the munificence of the Salem public for a further collection of books The Library at present consists of over 400 volumes including both standard works and light literature and is at present lodged in the Salem College for want of a proper accommodation. It is to be hoped that the Library will be given a local habitation in the pear future and the public more freely admitted to the full use of the volumes contained therein.

The Victoria College Mestel.—The Victoria College Hestel constructed at a cort of Be 32,000 and odd now ready for use and the Principal addressed the Concoll abuniting certain scheme for the working of the unvitation. The Concoll at least mesting appointed a Shi Committee comprising Hesser 5. K. Garnarwang Perr. A. Consider the cheme and Mr. Davey, the Principal, was asked to assist at the Committee's deliberations at an energet cuertury on the Official Conference on the Committee's deliberations at an energet cuertury on the Shi District Conference on the Committee's deliberations at an energet cuertury on the Shi District.

The Chairman announced that as a result of the sitting certain rules were drawn up. It was resolved to appoins a Warden, a Deputy Warden, two cooks, two assistants cooks, two Nair serration, two cooks, two assistants cooks, two Nair servations are made to the first cooks, the cooks of the first cooks are the cooks of the first cooks o

Pachayappa's Hostel —The Government of Madras have sanctioned a grant not exceeding onehalf of the scual expenditure, or Bz. 93,000 towards the cost of construction of a hostel with subsidiary buildings for the Pachaiyappa's College at Chetput, Madras.

Taylor High School, Narsapur-The thirteenth anniversary of the Taylor High School Debating Society was celebrated in the School Hall on Wednesday, the 17th inst, with M. R. By M. Kameswara Row Pantulu Garn, Ba, Inspector of Schools, Second Circle, in the chair. slits of the town including some of the European residents graced the meeting with their pre-Revenue Divisional officer, A. Mc. G. C. Tampos. Esq. I. C. S. who has been taking a very active interest in all that relates to the school sent a telegram from his camp in circuit to express his regret at his not being able to attend the function of the evening After a few introductory remarks from the Chairman, the Secretary read his annual report which showed how the Society after a long period of slumber was whipped into activity by the present Headmaster, M. H. Ry. A. Jaya Rama Row Pantula Garn, B.A. L.T. and how some private gentlemen of the place and the members were evincing great enthusiasm in the work of the Association and con-cluded with an appeal to the Taylor High School Committee to give the Society a small appual grant to make it more useful and popular. M. R Ry. S Krisbusmachariar Avl., BA. BL.

District Munsiff, Narsapor, then delivered a short, eloquest and impressive address to the students giving valuable advice. The members then put apon boards a Telugu drama and a few comic acrees which provided rounds of laughter. With a vote

of thanks to the Chair, the proceedings were brought to a close.

BOMBAY.

A distinguished educationist—A social gathering of the past and present atodents of the Eiphinstono College, was beld recently in the College premises. The ball of the building was gaily decorated. The Hon, Mr. W. H. Sharp, Director of Pablic Instruction, was among those present.

When Professor Dasium resired after a service of thirty years, for view opers of which be we scometed with the Eighinstone College, it was decided to commemorate his memory in a permanent form. A Committee was formed, funds were collected, and Mr. Sessodia, a young artist, who has received returned from those was commissioned in a service of a resident of the college of the college of the service of the college of the college of the service of the college of the college of the the sum of Rs 1,000 is reached it is proposed to found a prize in Mathematics.

Principal Coveration, who performed the survilling ceremony, paid aware tribute to the work of Professor Daskop, both as a teacher of Mathematics, and as the Registers of the Bonary Boisemeter 200 paid Coveration are of Mathematics, Professor Dastur's work had always been regarded as admirable by his pupils as well as his colleagues. Registers of the professor of the professor

The portrait, which is an excellent work of art, was then unveiled amid loud cheers.

CALCUTTA.

Government and education -The following official communique has been issued :-There appears to be some misapprehension as to the appointment of an additional Secretary in the Bengal Secretariat. The appointment of an additional Secretary to Government is not connected in any way with education, nor does it mark any change in the policy of Government in regard t education. This appointment is primarily connected with Revenue subjects and is the direct result of the revision of the constitution of the Board of Revenue which has been reduced from two Members with two Secretaries to one Member with one Secretary and of the consequent traveler to the Bengal Secretariat of a considerable portion of revenue by statute. Whereas une Secretary has hitherto been in charge of the Revenue and General Departments. it has now been found necessary to have a Secretary for the Eevenue Department alone. The consequent re-distribution of the departments of the Secretarent other than the Pablic Works Department, amongst four Secretaires instead of three will be that the General Secretairy, whose department is related to the secretairy of the Control Secretairy, whose department is related to the control of the secretair of the control of the secretair of t

ALLAHABAD

Meerut College.—The good work of Principal Jeses at Meerut Collegs has been recorded in the columns of his annual report for 1912 3s and we are giad to say that it shows an advance in every direction On the question of the University er amination results Principal Jesse makes the following observations —

following observations —

The public is apt to judge of the work of a college
by the exceedingly deceptive method of percentages
and any one who examines these figures without
fully understanding the conditions is likely to
regard them as hardly good as they should be
While out for a moment segring that I am perfectly

estisfied with our results, I maintain that under the conditions we could hardly be expected to obtain

a very high percentage of passes
The numbers in the aris and science: classes rose
from 178 in 1911 by 2.722 in the year of report
The first result of the r

the business department rose couniderably during

The "demand for biology" become 'tessessents and a class was opened. Thanks to special greats we shall be able not only to have a well equipped library, but a properly furnished room in which to house it. We are particularly glad to read under discipline that white every care is taken to want discipline that white every care is taken to want and action, the students are given all the freedom possible and that they have not abased the trust reposed in them, and the general tone the following the students are given all the freedom that they have not abased the trust reposed in them, and the general tone of the institution has been most satisfactory. This is as it about he Discipline ought over to be individual blevia mids and needless retained on loudrydual blevia mids and needless retained on loudrydual bleviants.

MYSORE.

Sri Lakshminarasimhaswamy Dharma Patasala, Bangalore—The object of Mr Janopaksri Dod danas Settyn cetablishing this institution is as explained in the previous years reports to edicate the poor and deserving boys trespective of caste or creed to which they belong, free of cost, in

such a manuer as to make each due of them fit for

some sensitive size of users adocation, imparted, in this school extends from that of infants to that of the Mysore English Liwer Secondary. The course of practical instruction green in the indiantial action also begins from the infant stage. The interest of the interest of the infant stage. The interest of the interest of the infant stage is not the Charrest and Standard At present carpentry and ration work are the only optional branches of industry that can be chosen by the boys. In the handierst clares pupils are at present trained for not to the elementry grade.

Science Teaching—As for the teaching of science in the State we recognise that, with prebags a single exception the Octotal College, can bosset of the best equipped laboratory in all S Indias and that is has equal advantage in the matter of the processorial staff as well. But what about the finess of those who enter the college? Are they prepared to receive what is to be taught thore? We have personal knowledge of how science we being taught in a few High Schools in the Prevince and our in a few High Schools in the Prevince and our in far better hands it all the trouble about it is not to end in mere make believe.

to add in mere make believe may be be to ferred out the farsh the merely seems to be to ferred out the first better than the seems of except and set them to a course of revision of studies in the Central College under the gradance of the accomplished principal Professor of Physics. We hope this suggest expression in these columns. The equipment and manning of at least those High Schools that are approached for provide for special advanced courses in serious should be improved immediately so that course the serious should be improved immediately so that course the serious should be improved immediately so that course the serious should be improved immediately so that the serious should be improved in mediately so that the serious should be improved in mediately so that the serious should be improved in mediately so that the serious should be improved in mediately so that the serious should be improved in the serious should be in the serious should be interested in the serious should be interest

The Mysore Educational Association—A meeting of this Association was held in the ball of the Government High School with Mr all Shams Rea. If G of Federation in the chair. There was a fairly large strendance of professors and teachers. The provides of the strendance of professors and teachers. The provides of the contract of the contract of the contract of the contract of the annual subscription is fixed at R.2 for the resident members, and R.2 for non-resident contract of the contract of

TRAVANCORE

Vernacular education.—The following notification appears in the Traconcore Covernment Gasellei His Highness' Government resolve to appoint a Committee consisting of the following persons, to enquire into and report on the condition of vernacular education in the State --

Dewan Bahadur Mr. A. Guvinda Pillei, RA, RL, Chairman, Membera—Mr. A. B. Raja Raja Varma, K.A.

Professor of Sanskent and Dravidian Languages. H. Il the Maharajah's College, Trivandrom, Mr. P. K. Narayana Pillas, BA., BL. High Court Vakil-Kotlayam; Mr. M. Rama Varma Tampan, BA., LT. Rottayam, Mr. M. Isame varma isampan, na., tv. Head-Matter, Higher Grade Secondary School, Parur; Mr. G. P. Thomas, na.t. 1, Headmaster, M. T. Seminary, Kottayam, Mr. N. Kumwar, Asan, Secretary, S. N. D. P. Yogam, Trivardam Mr. S. Paramewara Iyer, na., n.l., Dutriet Muniff, Kuzhulborsi; Primat K. Chinnamma, Unniff, Kuzhulborsi; Primat K. Chinnamma, Munisiff, Kuzhukursi; Stimati A. Cunnamome, Assistant Inspectress of Girls' Schools, District III, Quilon; Mr. K. Venksteswern Iyer, 2 A. L.T. Vice-Principal. Teachers' College, Trivandrum, (Secretary). The Committee will specially report on increasely, and committee will specially report on the following points:—ii) Whether any of the changes introduced by the Education Code have operated against the development of vernacular education, and if so, how? (ii) Whether, under existing conditions, it is practicable to raise the standard of vernacular education and if so, on what lines? (iii) Whether it is necessary to introduce a separate higher examination in the vernacular, after a pupil secures the Elementary School Leaving Certificate, and if so, what should be the scope and method of that examination, and how it should be conducted, and whether, in that case, the present Elementary School Leaving Certificate should be retained? (17) Whether the textbooks in use in the elementary schools are suitable, and if not, how they could be improved; whether suitable text-books for imparting instruction of a high standard, solely in the vernscular, exist at present, and if not, how are they to be anpplied? (7) Would it be possible to had suitable and remunerative employment for those who may pess a reminerative employment for those who may pass a high standard examination purely in the verna-colar? The Committee should submit their report within three months. The non-cflicial members who are not residents of Trivardrom will be given travelling allowance at the rates fixed for first class officers in the Service Regulations for all journeys in connection with the business of the Committee and detention in Trivandrum. The official members who are not residents of Trivandrom, will draw such travelling allowance as they may be eligible for under the Service Regulations.

Leaving Certificates.—The Travencore Dorbar law ordered, as a multer of concession, that the Public Service Endocranes to appended the Public Service Endocranes to appended have obtained to the Endocrane Service Certificates of 1911 and 1921, which was obtained too ties than 40 per cent of the number of marks in English and also not less than 40 per cent of the total number of marks. The holder of a certificate with the minima specified phore may be that the endorsement on his certificate.

provided he produces the certificate before the Director of Pablic Instruction, Trevancore, "within arx months from the date of this Notification," after which period, the special corcussion hereby given will ceases

Bi. Joseph's High School —The prize distribution at the institution tack place recently at the Jubiles Town Hall under the presidency of Devan Bahadar P Rejsgopalarhert, the Devan. The programme was opposed by the St. Joseph's Basd playing the March, "Teddy O'Neel." Then score of welcome were song in Senshrit and Tamil.

The wording of the roper (war, the Dewe distributed the press to the students A recess from "Jolia Caves" was staged, and it was gone through with much credit to the ansatzer, followed by some interesting appears, but the stage of the president of the stage of the stage of the president process. Which was full of wise and precident hints to the students who are to make lutter ciliars. The programme of the strainty wound up with the aleging of "Odd Sar The

COCHIN.

LITERARY NOTES.

Soon now books of the University Tulorial Press. The Fundamentals of Psychology by B Demittle, MA. F.C.I., Master of Method and Lectaret on Education in the Lingston by Training Edication of Education in the Lingston by Training Edication of Education in the Lingston by Training Collection, and the Control of the Contro

The following are amongst new books acnounced by Messrs. W. & R Chambers :- "Chambers's Concise Gazetteer of the World," entirely new edition, with the latest available census orders de net ; "Adam Bede, by George Eliot, a presentation edition of this masterpiece of fiction, with 16 beautiful illustrations in colour and 40 deinty pen and ink aketches by Gordon Browns, size 101 by 2 by 74, 10. 6d net . "Lorna Doone," by R. D. Blackmore, a very fine edition of this romance, with 14 illustrations in colour and a series of pen and ink sketches by Gordon Browne, size 83 by 54, 6s net, "Madrigali," by T. A. Daly. This volume of poems has achieved a great success in America. The author has been described as the "Poet of the Streets," and his verses in the Dago dislect depicting Italian life in America show a very close and sympathet c study of that interesting class 5s net

Messr., Williams and Norgate have 11st issaed a new set of fire volumes in their flowe University Labrary, making 75 volumes in all The following are the tutles - Germany of to day,* by Charles Tower, "Plant Late" (Illianteated) by Prof J B. Fartner, MA D So. F RS . The Writing of English,* by Prof J W. T. Brewster, MA 1 - A listory of Freedom of Thought, by Prof J B Dary, D Latt, Li Li D 2 and "A secreta Art 1 and Battatl, by Muss Jane E Harrison, file D, D, Latt

Messra W and B Chambers have announced for coloured relative books. Amongst them we notice a "Baster Brown," which is ever a laughter raiser, not only with children but their paresis too. The tailer of these Christman books are: "Baster To The tailer of these Christman books are: "Baster To The tailer of these Christman books are: "Baster To The control of the Christman and Hastrations by R. F. Outcault, the originator of the ministable" Baster " "Aurabips that (time Bottle by G. A. and G. A. Williams, Size 14) by 10½ the children "Khips Kaddo's Speciesces," by Grace O. Drayton, author of "Khip Pass" of Grace To Drayton, author of "Whip Pass" of Grace of Drayton Size 15) by 5] The mer and the Christman of Christman of

The fiction in August Mond Monness in scriphoselly strong and nucleate his following "rett Transformations of Johnson," all uncorns Story, by Robert Barr, "The Amening Quest of Mr Expect Bline" by E. Philips Oppenbern; "The Scribbler," Strong Human Story, by Lacrosco Theorel; "The by E. R. Paushou, "Told by the Stage Dhor keeper," by F. Howell Erman; "A Deal said of Schiller," by T. Howell Erman; "A Deal said of Schiller," by H Gollmann Osen; "Mesk Mus Mattle," by N Besserin; "The Password," by Samuel Gordon; "Nemetas Distanced," a Ferraisin Romance, by Cives Itoliado, "The Sarrying Mr Jones," by Dordon March Carlot, "Both March," a Story of a Strong Long, by Gollman and Carlot, "Both March, and "De Regional Wright Ksuffman, "Olitter of Gold," by Regional Wright Ksuffman, "Olitter of Gold, "by Regional Wright, A Sleeping Dyg," by Sendamore Jarris, "The Dam," a Ganadian Story, by Brainley More, and "Bronger and Brance," by Brainley More, and "Bronger and Brance," by Brainley More, and "Bronger and Brance," by

Wessely's Datlonaries T Fusher Unwin. Zesech, are not only convenient in size, low in price, and thoroughly up-to date, but also remarkor trobused terms, or of conversational phrases, but combine the advantages of both, and they also contain entil late of geographical and they also contain entil late of geographical and targular vers to the transition of the contargular vers to the transition of the contargular vers to the type, though necessarily somewhat small, is very clear, and in all respects to the faundation and of traveller singled to the needs both of amodests and of traveller singled to the needs

Messy Jack are adding rapidly to their "Peoplar's Book" series which continues to gain in proping Testifung Testifun

The East India Association, London will publish shortly a volume satisfied "Truths About India" being a compact and useful reprint of leaflets seased by the Association, with Foreword by the Right Hon Lord Ampthill and Preface by Messra J B Pennington and J Follon. The volume will be priced one shifting (with Tustage 1s 24) net, and is Victoria Sireed. S. W.

First Contents of Errath Fors: In these two volumes in: Wallam Subbing green his rappressions of the value, the beauty and the inflaence of the poetry of English writers from Geoffrey Onter to Altred Tempson (Henry Frowde, Oxford Claurersty, Fress), in the survey. Mr. Rebbing Claurersty, Fress), in the survey. Mr. Rebbing Claurersty, Fress), in the survey. Mr. Rebbing Claurersty, Fress, in the survey of the State of the Content of the Co

gence by writers, the magic of whose verse has been to him a liberal education Each poet is separately treated with a delicacy of appreciation and informed discrimination which it is a pleasure to read.

Meesrs. Chapman and Hall have in preparation "The First Editions of the Writings of Charles Dickers, and their Values, a Bibliography," by John C Eckel, with a portrait of Dickers, and 26 illustrations and facsimiles

Messrs, Hutchinson's autumn list will include "Unknown Mongolis," by Douglas Carruthers, containing the narrative of the explorations for which the author received the gold medal of the Royal Geographical Society, filling two illustrated volumes, with an Introduction by Earl Corgon of Kedieston, and three chapters on Sport by J. H. Miller.

Sir Robert Ball has revised his book on "Star-Land" and brought it up-to-date for a new edition which Messrs. Causell have in preparation, with additional illustrations.

Messre Methuen and Co, will issue at once "Motor Ways in Lakeland," by Mr. G. D. Abraham and "The Avon and Shakespeare Country," by Mr. A G. Bradley.

Among the antumn books to be published by Mr. Milford for the Yale University Press will be "Some Questions of Modern Government," by W. H. Teft.

School and College Sporting News

Cricket at Bangalore.

The boys of Bishop Cotton's played the Baldwin High School on the 6th instant on the Cottonian ground and beat their opponents by the respectable margin of 119 cuns.

Gricket at Mysore.
Bisnor Cotton's v. Ursu Boarding School.

An interesting match was played on the Maharajah's College ground on the 30th ultimo between rains college ground on the coun ultimo newscon teams representing Bishop Cotton's School, Banga-lore and the Ursa Boarding School. The teams proved to be very evenly matched, the home players only winning the game by the narrow margin of

two runs. The visitors went in first and scored 75 rans, the highest scores being 15 and 14 by O Johnson and C. Combos, respectively Putters; Urs being the Ursu's most successful bowler with six wickets for 31 runs. The Uren team just managed to exceed their opponents total by two runs, accriting 77, of which 20 was obtained by D. C. Nanjaraj Urs and 20 by Niranjanyaj Urs Price was Cotton's most successful bowler with five wickets for 22 rups, & splendid performance. The weather was ideal throughout the day, and the match was witnessed by a large number of spectators,

M C. A. Association Oricket League. Under the auspices of this Association, cricket matches were played. One of the most interesting matches in connection with this tournament was played on the Medical College ground between the Medical and Engineering Colleges. The match

ended in an onen deaw The match between the Wesley and Law teams played on the Pickwick Club ground, Island, was productive of a very exciting finish, the Wesleyans eventually winning by the narrow margin of 2 runs.

In the match between Presidency vs. Pachiappas played on the Presidency College ground the visitors who took first tenancy of the wickets put up 100 runs. The Presidency easily knocked up the required runs for the loss of 5 wickets thus winning the match by 5 wickets.

The Medical cs. Pachiappus teams met on the Medical College ground. The visitors who elected to but on winning the toss, gave a wretched display, being all dismissed for a total of 52 runs in little

more than an hone.

The match between the Wesleyans and Engineering teams was played on the Engineering College ground The Engineers who took first tenance of the wickets were all out for 60 runs. The Wesleyans knocked up the required rans for the loss of only wickets, thus winning the match very easily by 8

The Teams, Presidency vs. Law, met on the Presidency College ground. The match ended in an easy win for the Presidency by 8 wickets and 10 runs.

Madras Athletic Association Football League. One of the most interesting matches in connection with this tournament was played on the Engineering College ground between the Presidency and Engineering Colleges The Engineers ran out winners

of the match by 8 goals to 1.

The teams, Law College to The Teachers College, Saidapet, neither of which has a proper ground of its own, met on the S. I. A. A. ground. In this match, the Lawyers were left winners of the match

by one goal to nil.

The teams, Medical College vs. The Royapuram Medical School, met on the Medical College ground. Great interest was centred in this match, as neither of the teams had so far been beaten in this tournsment. The match ended in a draw one all, the teams still keeping their upbeaten record.

The Presidency vs. Medical met on the Medical College ground. Though the play was not particularly fast, it was none the less quite interesting to watch, the teams being very evenly matched. Presidency were left winners of the match by the

odd goal in three.

One of the most interesting matches in connection with this tournament was played recently between the Pachiappas and Christian Colleges on the S I A. A grounds With both sides at very nearly full strength, the play took a fairly fast and quite interesting turn right through The Pachieppas were left winners of the match by 2 goals to

The Educational Review.

The importation from England of a Director of Public Instruction for Death of educa tional experts Beneal and an expert adviser on University teaching for Bombay means that in the opinion of responsible

men the Indian Educational Service either lacks menoftalentor men withup to date knowledge. of educational organization Either alterna tive does not reflect credit on them the members of the Educational Service are in the eyes of Government men not endowed with talent enough to do the work it means that the Government displays a lack of discretion in chaosing them in the first instance We do not believe that this is true The men chosen for the educational service are Honours men and are in no way inferior in brains or education to those of other services. We are driven to the other conclusion vis that once they come to India they begin to degenerate at least do not keep themselves abreast of the times-at least in the matter of educational organization much the action of the Government of Bengal and the University of Bombay above referred Now what is the cause of this? to implies One cause of the degeneration of educational officers is their frequent transfers from one end of the Presidency to another An Inspector takes a few years to understand his Circle to master its vernacular to acquaint himself with the defects of the various schools under his charge when presto he finds himself a thousand miles off new men a new vernacular new schools facing him. It must be a very hardened enthusiasm for educational work that can stand such a strain A Judge or a Collector can leave a case half heard or a

question half disposed and his successor may

take it up and go on but a Professor or an Inspector cannot take up anothers work midway for in educational work each man has his own way his own plan his own methods his own favourite subjects, and one man cannot take up another man a burden just when the latter has thrown it down. The possibility of having to leave one s work half done or quarter done cannot stimulate any one to do it well Another and a greater evil is the transfer of men from the Inspectotate to the Professorate and accessorate these days of the rapid march of knowledge, when no one can hope to be a specialist even in one main branch of one subject no one can be worth his salt unless he devotes all his time just to the one aspect of one subject that he is ant to specialize in. How could be do so if he is see sawed from inspecting work to lecturing work and back again from the latter to the former?

But the greatest defect of our educational organization is that it has to be a one man show The D P I has to be a phenomenon-expert in developing primary education expert in directing the growth of secondary education an expert in University matters in that he influences the Senate and the Syndicite in all their decisions and he is also the educational conscience of the Government expert in spending money-he scarcely knows how much he is going to be asked to spend any year-and above all expert in shaping round men to fit square holes at one minute s notice so as to suit the exigencies of the public service Doing all this he has also to shape new policies and so it happens that an expert from England is found necessary once in a way to recharge with life giving oxygen the stagnant departmental atmosphere And the Inspector is a D P I in his own

facts of Dravidian grammar and the roots of the Dravidian languages If such a man is found and he is given facilities for work in time a Madras School of Dravidian Philology is sure to be founded worthy of a modern University But before this can be done the Professor of Dravidian successfully Philology will have to conduct a thorough linguistic survey of Southern India collect word lists and prepare a preliminary scientific grammar of the various dialects of Tamil Telugu Canarese and Malavalam and of Tulu Kut Koyi and other out of the way tongues that have been evolved out of the original Dravidian stock We fear this work will require an additional grant and we cannot think of any worthier purpose on which the Madras Government whose patronage of scientific work has not been over generous can spend a small part of its revenue Dravidian languages being practically confin ed to the districts of the Madras Presidency it is but right that the Government of Madras should share a part of the cost of the scientific study of those languages

Industrial train ing of Indian students in Eng

land.

The report of Sir Theodore Morison's Com mittee for reporting on the working of State technical scholarships for Indian students established by the Government of India in

1904 pleads for the necessity of a better train ing than the Indian student gets now recommends that the students sent should be of The average quite exceptional capacity man who can never be expected to more than carry on well known industries by well known methods need not go to England for training and if he did the State would not be justified in paying lib way On the contrary the

Government should send men who have shown capacity for scientific work and acquir ed some knowledge of science and who are to some extent familiar with the industry they propose to study For instance a student of mining must have had a years experience down an Indian mine Besides the University. business men may be asked to had young men who are likely to benefit by a technical scholar ship Having found the man the next thing ought to be not to stint in the way of providing him with the best truining that it is possible for him to receive For the object of the State in training these men at its cost in England is not to enable a few more men to earn a few more Rupees but to enable them to develop the resources of the country to further industrial development without which no country can in these days stand the strain of the furious competition that is at the basis of modern trade Hence the expense of technical scholarships cannot be defended at all unless they give the best preparation possible for the highest kind of industrial work To secure this it is considered that practical training in a business firm should form an integral part of the technical scholar s education Therefore the period for which scholarships should be tenable is recommended to be not less than three years and not more than five years This will ensure a long spell of continuous practical training The Com mittee also thinks that the facilities for industrial and technological training have not yet been sufficiently enquired into and proposes that some representative of the Secretary of State visit such centres as Sheffield Liverpool, Bradford and Newcastle where it appears probable that special facilities exist for the study of particular subjects

The King and Queen have expressed their

A Royal Garden
Party for
Teachers
the teacher in national life

by holding in July last, a garden party, to which all the heads of teaching institutions in London were invited. This is an example which their representatives in the various provincial capitals of India may very well follow. At present our Governors never have a chance of meeting Indian educationists. What with the semi-contemptuous depreciation which the world has always meted out to the teaching profession and the consequent self-effacement which has characterized the life of teachers, their influence on public life has been, so far, nil. Nor are the Councils, Municipal or Legislative, so organized that it is possible for them to find their way into them. Democracy will not seek them out, nor are they proficient in the arts that charm votes. And yet they are the people who have benefited most by Western culture, that read and think and are hence least swaved by the cants of the platform, Yet, they never come into touch with, they have no chance of discussing even their own professional problems, not to speak of other public questions, with the powers that rule the land. It is not right that Governors and others should yield so completely to the fascinations of the more talkative public men and so completely ignore the large body of cultured. dispassionate workers in the field of education. We believe European educationists in India have opportunities of meeting high Government officers provided by the amenities of social life. But that Indian teachers should have absolutely no such chance is not right, Of them, as of teachers in other countries, it is true, to quote the words of the London Times that "drudgery and failure, real or apparent,

is the inevitable lot of all who teach.......The teaching profession, throughout history, has pursued its high calling under the shadow of some degree of hostility, or even contempt, on the part of mean unwilling to content themselves with its immaterial rewards." It is said that our Governor takes much interest in educational questions and has much sympathy with educationists; if this is true, he can best prove it by following the noble example set by the King whom he represents and arrange to meet teachers in social functions and discuss with them informally questions, educational or otherwise, to the benefit of his administration.

The great question that is now agitating

State grants for Secondary Schools world and which will be made the pivot round which

the Education Bill of next year will turn, is the one of the nationalization of secondary education. The main demand is this-that the State should bear a fair portion of the cost of teaching in private secondary schools, The great principle of reform advocated is that in the case of all schools the expenditure under salaries of teachers should be borne by the State and that the cost of maintenance, building and equipment should be borne by the school authorities. This, it is expected, " would tend to raise the standard of school efficiency throughout the country. This plan would have the advantage of focussing attention for some time at least, on essentials. It seems imperative for the sake of educational progress that for a few years the efforts for betterment should beconcentrated on teaching power, and that the first place should not as hitherto be held by the far less important items of building and equipment." It has been calculated that if the State should contribute an amount equivalent to that now spent on teachers salaries and other emoluments the charge on public funds in England and Wales on education will rise from about £13 000 000 to fig ooo ooo One turns with a sigh from this to a contemplation of the miserable nittance called teaching grants given here to our secondary schools Whereas in England they demand an increase of grants by about 50 per cent, in Madris the D P I has been pursuing the policy of steadily cutting down teaching grants till in many schools it is dangerously near the freezing point Whereas in England they want the whole of the salaries of teachers to be paid by the State in Madras not even ten per cent of the salaries is in the case of several schools contributed by the State If all teachers salaries were paid by the State and that according to a fixed scale how much will our teaching staff be strengthened and how good will the equip ment of our schools become if all that is now given by the management as salaries be turned to account for this purpose? Will any member of our Legislative Council have the hardshood to propose this in one of its meetings? If he will we should like to be there to watch the sympathy of our D P I when such a proposal is passed

We have great pleasure in reprinting from Professor Boss, the Modern Review by Researches their kind courtesy an ac count of the researches of Professor J C Bose of the Calcutta Presidency College It is the first of a series of accounts of original work done by Professors of Indian Colleges and we commend the enter prize and enlightened patriotism of oir contemporary, for nothing can stimulate Indian

workers so much as recognition in the land where they work In the article is enumerat ed 80 papers and books by Prof Bose The great contribution of the Bengalee Professor to the cause of the progress of scientific thought is that he has driven one more nail in the coffin of metaphysical physics every generation science makes a supreme effort to wrest from metaphysics a part of the region of the unknown and when it rests after the exertion metaphysics returns to the fray and invents new expressions which seem to be illuminating but are really confessions of ignorance in gilded phrases. One such is the so called theory of vitalism Vitalism says that the activities of living beings are guided by a life force which is outside the region of the causes and laws studied by physics in other words life is a metaphysical something which can never be understood Such a confession of impotence the true physicist rejects with scorn and devises experiment after experiment to prove that the division of matter into living and non living is false in its essentials, that all matter is governed by the same laws, From the side of chemistry the boundary between living and non living matter has been very much effaced and from the side of physics much work is being done in this direction. Of such work. Prof Bose s is the most prominent In his Response in the I it ing and the non living (1902), he proved that responses in plants and metals are modified in the same way as in animals In his Plant Response as a means of Physiological investigation (1906), he built up a living functioning plant from three factors, te, stimulation or transference of external energy to the plant contraction or direct response and expansion or indirect response In his Comparative Electro physiology he correlated the electrical changes in the neuromuscular apparatus of animals with less known changes in the plant world. Thus has he helped to break the artificial boundaries between biology and physics and contributed to the march of human thought.

The Mathematical Association has just published a general mathe-Mathematics matical sallabus for nonfor non-specialista. specialists in public schools. The syllabus is in two parts-one for "rotters" including Arithmetic, Geometry, Algebra and Elementary Trugonometry Our S. S. L. C. Board may very well take a hint from this, reduce the Geometry and Algebra included in "Elementary Mathematics" and include some numerical Trigonometry The second is for the non-specialists who yet have more than average ability. This includes (1) Mechanics, in teaching which advantage can be taken of the pupil's general knowledge of bicycles, engines, motor-cars, lifting tackle, cranes, etc., the course being experimental and the examples numerical. Such a course will be very useful to pupils taking our S. S. L. C. Group C. Physics. (2) Algebra, in which the idea of a function. the meaning of limit, rational and irrational numbers, the binomial theorem for a positive integral index, finite and infinite series, compound interest law, and the exponential function, will all be treated in a very elementary fashion. (3) Calculus, i.e., explanation of the ideas of rate of change and of integration applied to the determination of areas, volumes, centre of gravity, &c. (4) Analytic Geometry-the application of the methods of analysis to curves with which the student is acquainted. (5) Trigonometry, including such a convention of signs as the resolved part of a vector R is R cos A at any angle A. limits as sine X when X is made very small, periodic functions and functions with multiple values, as illustrated by the direct and inverse trigonometrical functions. (6) Geometry, including one to one correspondence between two figures (similarity, projection or inversion), the principle of duality considered as the interchange of point and line, not necessarily as reciprocation, together with the ideas of properties (harmonic, etc.) surviving such transformation. Solid Geometry such as would take the place of Euclid Book XI and mensuration of the ordinary solids and a certain amount of descriptive geometry (plan and elevation). Such a syllabus would be considered absolutely impossible in an Indian High School, but we must remember that in English High Schools pupils study till they are eighteen or nincteen years of age, whereas our High School pupils are urged by their parents to go on to the University when they are barely fifteen. We quite like the sub-division, implied in the above scheme of non-specialists in mathematics into two classes, those of average ability and those below par and wish that our syllabus in Elementary Mathematics

of the S. S. L. C. could be separated also.

The Educational Review

A Monthly Record for India

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No 10.

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THE RELATION OF THE UNIVER-SITY TO THE HIGH SCHOOLS IN THE BOMBAY PRESIDENCY •

I AM sure I will not be guilty of any injustice or disrespect to the University if I
take it as my starting point in this paper that
the relations of our University with the High
Schools are of a very meagreand therefore unsatisfactory character. Beyond publishing a
list of what are called recognised High Schools
and examining the students sent up by these
schools for the Mistriculation test, the University hardly has any other important point of

contact with the High Schools Perhaps to be strictly accurate it should be added that the University prescribes a syllabus of subsects for Matriculation and this year has actually prescribed a text book in English! For many years the University rigidly placed a bar upon the appointment of schoolmasters. however highly qualified and competent as Examiners at the Matriculation examination and, thue, while briefless barristers, newspaper editors, lunior professors at colleges and members of business firms were appointed as Examiners. Headmisters of good University qualifications and wide experience in teaching were shut out from fear lest they might not hold the balance even between school and school and candidate and candi-Thanks to samer counsels-which though belated have come at last-the University for the first time took a new departure last year by appointing two well known and experienced Headmasters as Examiners in English at the Matriculation examination This brief recital practically exhausts the commercion of the relations at present obtaining between the University and the High Schools I shall endeavour in this paper to show how larger and more hopeful relations may be developed between the University and the High Schools to the better

A paper read by Mr N G Wailness, w i LL, before the Educational Conference held in Bombay ander the suspices of the Tanchers Association

advantage of secondary and even collegiate education,

Let me begin by showing what can be done in this direction by reforming the conduct of the Marriculation examination. The serious disadvantages inherent in the conduct of a large public Entrance Examination by the University were clearly and forcibly shown by educationists of long standing and recognised position during the prolonged debates that took place in the Senate of the University about three years ago when the Sanate was moved by His Excellency the Chancellor to reform its system of examinations in the Faculties of Arts and Science. There is no need to recount those discussions here; but assuming that the Matriculation examination stands in need of reform as we are well entitled to assume. I ask: Cannot the University delegate to the High Schools the work of examining and certifying their pupils for Matriculation? I feel sure after continued and careful consideration of this matter that this can be done and, if done with the necessary safeguards for efficiency, and fairness will be attended with much advantage to schools and colleges. We should thus escape the evils of crowding a very large number of students and making them do their examinations under conditions of great discomfort, trying to body and mind alike. Our students would also have their work carefully and sympathetically examined, whereas under the conditions existing at present it has to be examined with great harry, frequently by men who have little or no personal knowledge of work in a High School and are thus in danger of being unduly lenient or unduly severe in assessing the papers submitted to them. And-what is from an educational standpoint even more

important than these considerations-we should be rid of the vicious system of certifying the fitness of students from the mere results of an examination without regard to the record of their work at school affording guarantee of their having undergone some satisfactory moral and intellectual discipline. In this connection it will not be out of place to point out that the Madras educationists influenced by these and allied considerations have practically abolished their Matriculation examination as a University test. In the certificates issued by the Board under whose control the examination is now placed is included a careful statement of the student's behaviour and work in his school for three years preceding the issue of the certificate : the Principals of the Colleges are further given discretion on the consideration of each student's certificate to grant or refuse him admission to College. These changes had the effect of reducing the number of candidates at the Matriculation examination last year to 821, the number in previous years being about 8000. I have cited the instance of Madras to show that the idea of abolishing the Matriculation as a University examination has already materialised in a sister Indian University and that there is therefore no excuse for regarding the idea as merely Utopian or academic.

Ball am not content with advocating the mere transfer of the Matriculation examination from the University to the High Schools—of course, with proper guarantees of efficiency and fairness as I hava already said. J. am going to suggest a further step in the direction of more closely associating the High Schools with the work of the University. Let us look for a moment at the condition of the first year classes in our Arts Colleges

From the latest University Calendar I get the following figures of the students studying in the first year class in the Colleges of Bombay Elphinstone College 163. St Xavier's College 263, Fergusson College 316, Wilson College 320 These figures tell their own tale! Is the least degree of individual attention to the student possible in classes of these dimengions, even if they are divided into two ! I am sure I am not singular in asserting as I do that the "teaching" given in classes of such numbers can be called "teaching" only by courtesy and does not really deserve that name. I will not waste the time of the Conference in discussing the question whether any " teaching" in the strict sense of the term should be expected to be given in College classes The fact is that the junior classes in our Indian Colleges are really not College classes at all, they are merely High School continuation classes and the wast majority of the students are not prepared to intelligently follow mere lecturing as distinguished from teaching, which former is what goes on in our colleges I am sure this unsuitability of the lecture system to our freshmen as at the bottom of the lack of method and intellectual grasp which is so generally noticed in the graduates of our University. This evil is further accentuated by the fact that on account of the exigences of the situation our numor classes are dealt with mostly by Fellows, Lecturers or Januar Professors, who are only fresh graduates of Indian, sometimes English and American, Universities and are absolutely ignorant, almost without exception, of the principles or practice of teaching Now I ask would it not be infinitely better for our students to be doing their first year's work of the University course in manageable classes in schools under the care and tuition

of able, experienced and cultured Headmasters, than to be huddled up in unmanageable classes with an inexperienced and often talkative Fellow or Junior Professor lecturing away to them or rather at them without caring a cent whether or not his hearers are intelligently following him?

I can foresee a crop of objections being brought forward to the two measures I have here suggested-the transference of the Matriculation examination to the authorities of the High Schools and the entrusting of the first year's work at College to the heads of High Schools to be done in the High School after Matriculation I regret that the scope and purpose of this paper will not permit of my entering into the consideration of objections I must not however omit to make one important explanation to guard myself against being seriously misunderstood I have nowhere said and I certainly do not wish to suggest that this dual work should be entrusted to the High Schools independently of the control and supervision of the University; nor do I wish to imply that this duty should be entrusted to all High Schools as such. Far from it, on the contrary to make the scheme of real benefit to education the University must actively exercise its supervisory powers and rank the High Schools according to the quality of their educational equipment and the qualifications of their teaching staff, granting the power of examining students for Matriculation and conducting College classes only to such High Schools as may be considered to be adequately manned and equipped for the carrying out of these very important functions. That there are High Schools in Bombay and other cities in the Presidency which in all essential respects are fit and able to discharge these duties is to my mind

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certain. When this is done I am sure High Schools will be brought into much closer toach with the University, the heads of schools will become responsible representatives of the University and as all past experience has shown with added responsibility thrown on them they will rue to their privileges.

I pass now to my next point. Our University is the solitary University in all India which enjoys the unenvisible distinction of having no examination for conferring a Degree or a License in Teaching. The Universities of Madras and Allahabad grant the Degree of Licentiate of Teaching; the l'anish grants the Degree of Bachelor of Teaching and Calcutta has two examinations. one for the Orgres of Licentiate of Traching and another for the Degree of Bachelor of Teaching, Sorely the Bombay University as the trustee of the higher culture of this great Presidency owes it to the cause of secondary education which is the threshold so to say of academicedocation to make it possible for those who have obtained high proficiency in the theory and practice of education to obtain the half mark of a University qualification. T ero is no other means by which the University can so comistakably show that it acknowledges the claims of education to be placed among the sciences as by institution a degree in teaching. If the University deems it right and proper to test and confer degrees for professors in a dearn sciences. earely it easent be seriously argued that Eleration is not wertly to be ranked with them and to be becomend with the institution of a degree to mark high attainment in that subject. I feel that I shall have the full sympathyel this Conference in arging the aztherstone of the University with all the partenters I can courant to \$1 up at the

earliest possible time this discreditable gap in the system of its degree examinations.

Unfortunately no Indian University has vet risen to the appreciation of the value of a Paculty of Teaching for Pedarogy sait is technically called) as one of the essential organs in the constitution of the Senate of & University and we are perhaps not entitled to complain if the Bombay University does not do what no eister University in India does. But until the movement of educational opinion in India leads to the creation of a Faculty of Teaching in the Scottee of the Universities the interests of Secondary education will never find the opportunity of full expression in the government of our Universities. That day 10, however, not yet, and in the mrantime we can only trust that Teachers' Associations like our own in Bombay will steadfastly arge upon the Provincial Governments the claims of High School teachers to be represented in the University Senates and that the Governments recognising these just claims of Secondary education will nominate a sufficient number of schoolmasters to the Secutes of the Universities.

With one other suggestion I will bring this paper to a clear. It is an indisputable fact that practically all the teaching of fiscilie in the High Schools for India students is non in the hands of Indias students is non in the hands of Indias students is non in the hands of Indias students in the High Schools of India students in the Language of the care that any instruction in the clear and correct promonents on Digitals, act to talk of expression, lone, guerrer and the extent things that belong to the ert of electrical it that happens that the Englad Lesses is mean of the High Kelnoids is indiscribibility dail and beliens and is absolutely derived the moral and entirely value which belongs.

by right to the teaching of literature I have heard a stirring passage of Scott or a humorons piece of Dickens delivered by teacher and pupil alike in a way that sounded like an anthem from the Zend Avests or a hymn from the Rig Veds! The foundation subject in Secondary education is thus being roined because our teachers are ignorant of the elementary principles of elecution, that fine art which makes simple reading or recitation a delight to hear and conveys to the learner the spirit and suggestion of literature in a manner which no amount of commentary or explanation can possibly do Now in this direction I think it is in the power of our University to render valuable help to High School education by providing for High School teachers practical courses in the principles of elecution. And if the University organises some systematic teaching of elo cution by competent lecturers, the instruction will be welcomed by High Schools and will be eagerly availed of by Secondary teachers We have lately had an expert lecturing on phonetics under the auspices of the University Why should that course not be the precursor of a course on elecution ? Pronetics is an excellent thing in its way . but when its principles are expounded in the interests of spelling reform it is apt to become academical, something in the nature of a luxury If, however, it should prove to be the preparation for a course on the principles of elocution we all will have good reason to rejoice, for then it will have been the means of leading the University to bear a valuable boon to the High Schools and it would thus mark an epoch in the evolution of closer and more fruitful relations between the University and the High Schools ___

A TECHNOLOGICAL INSTITUTE FOR CALCUTTA.*

I MAY confess at the outset that on the details of Technical study embraced by the reports I cannot speak with any authority as my knowledge and experience have been entirely in the Department of Arts. I must therefore content myself with a treatment of the subject from the somewhat lay standpoint of the general educationist

The Government of Bengal deserve the highest commendation for elaborating this scheme of Technological Education for the Province. The need for prompt attention to this branch of Indian Education is no longer a matter of debate and there can be no doubt that the sooner steps are taken for its effective improvement, the better will it be for the material advancement of the country Taken as a whole the scheme represents an instalment of reform calculated to confer invaluable benefits on the Presidency When it is nut into operation and the Technological Institute is a realised fact there is sure to be a strong impetus to the commercial and industrial life of the people. It covers several new fields of practical instruction and strengthens those which already form subjects of study in several institutions. It is gratifying to see the Committee have taken note of the peculiarly backward conditions which an institution of that nature will have to deal with in this country In their zeal for a Technological College, they have not launched themselves upon visionary ideals which cannot come within the range of practical politics Special

^{*} A review of the scheme relating to the proposed Technological Institute for Calcutta by Mr P Seshadri M.A., of Pachalyappa s College Madras,

It is worth while paying special attention to one or two recommendations of the Committee in connection with the Engineering Classes. It is eminently desirable that Professors should be lent from time to time from the Engineering Department for that will ensure practical knowledge and experience of Indian conditions on the part of the teacher It has often been observed with regard to the existing Colleges of Engineering that the instruction imparted in them has not a very direct bearing on the work which the Engineer is called upon to do in India and the defect is sure to be remedied under the new arrangement.

It would seem desirable also to have a class for Higher Grade Figureering though the immediate demand for it may not be That will alleviate to some very pressing extent the necessity for Indian students to go to Universities like Glasgow for advanced in struction in Engineering It is difficult to write seriously of the Hon Mr Nathan's suggestion for a special residential college for Indians of good social status, for training in higher Engineering Nothing can be more ill advised than the separation of students in accordance with social status a step so inconsistent with the highest traditions of England to-day The Zemindar's son who considers it beneath his dignity to sit in the same classes with the somewhat less favoured educated young men of his country, does not deserve the slightest sympathy or consideration from the Govern ment nor is such a strange being likely to undergo the manual training necessary for the making of an Engineer Instruction in higher Engineering will only be wasted on him and the experiment is bound to be a failure.

A word on the proposed staff for the Department of Engineering in the Technological College It is quite unnecessary to have a member of the Indian Educational Service for Mathematics, an Indian in the Provincial Educational Service will be found emmently fit for the place The Professor of Mathematics in the local Engineering College has long been a member of the Provincial Educational Service and his has been one of the most successful departments in the College It is not possible again to get Euro peans of any ability or distinction as Assist ants on salaries of Rs 400 to Rs 700 and the three such proposed appointments may therefore be assigned to Indians in the Pro vincial Educational Service. They will other wise be wasted on fifth rate and sixth rate Europeans I find it difficult again to approve of the suggestion that the Professors may be allowed to have some consulting practice. It will mean a possible neglect of work in the College and the undesirable association of academical life with the distracting concerns of commercial practice

It must be mentioned in connection with the Department that there is a very good future for the Telegraph classes if only the Government will make more adequate provision for the admission of Indians into the higher ranks of the Telegraph Service with out making it almost the monopoly of the European and the domiciled community, as it is at present

The Textule Department must receive more attention than it seems to have got at the hands of the Committee as it is connected with one of the most widespread and long standing industries in the land. One of the causes of the failure of Indians who have

them as real personages who lived and acted in their own times. Froissart's description of the Battle of Crecy reads like a picture drawn by one who was in the thick of the fight himself and who was awayed by all the emotions which must have throbbed within the hearts of the conquerors. Who would not be moved by the force and reality of Sir Simonds d'Ewes' description of the famous attempted arrest of the Five Members by Charles I? The reader seems to walk among the warriors and statesmen, to hear them talk and to see all their actions through their own eyes. Another effect of a direct study of original sources is that it generates in the mind of the boy, a strong and deep impression about the most significant and enoch-making events in each He is beloed to understand and catch the import of the development of events and to form his own oninion about them. He is not made to depend for his indement on the writings of men who living in other ages and ruled by other ideas, could not naturally extend to their works a foliore, a clearness and a reality which must be the characteristics of an ideal history. He is taught to depend for his conclusions upon his own judgment and study, and is hetter able to develop a discerning faculty which may in time lead to a capacity for impartial observation and healthy criticism.

As Lecky says "he who has learnt to understand the character and tendencies of many succeeding ages is not likely to go very far wrong in estimating his own."

Of course the text-book is not to be discarded. Sommaries of the fundamental facts, of sequence of events, etc., have to be got in by recroise of memory; and for this basis of memory-work the text-book is indispensable. But to complete the work of the text-book the apparatus of documents and extracts can be brought in, partly to illustrate the facts, partly to expand them, but mainly to give exercise to and atreogthen the capacity for analysing, for reasoning and for sifting internal evidence.

In the case of the History of England, we have got an abundance of handy volumes of original material suitable for the use of schools and colleges. Gardiner and Mullinger's "Introduction to the Study of English History," Colby's "Selections from the Sources of English History," Kendall's "Source-book of English History," the series of English History by contemporary writers edited by York-Powell, the series of English History illustrated from Original Sources published by A. & C. Black and the precious collections of decuments by Stubbs, Prothero and Gardiner are some of the great number of volumes of original extracts. Reprints from original chroniclers like William of Malmesbury and Proissort are easily available and afford greatly valuable material. Poems contemporary with the events they treat of, like the song of Maldon, are accessible and they form living and instructive pictures whose value cannot be too easily overestimated. Private memoirs and biographics, letters and diaries, possess, apart from their literary value an amount of sterling historical worth and they are all the more useful in shedding light upon contemporary movement, since they are less formal in tone and more personal in their observations than chroniclers and professional historians. The invaluable Paston Letters form perhaps the best picture of fifteenth century life, while the immitable D say of Samuel Perps throws a ball of charm round our study of the social life of the Restoration These being crore readable than the ordinary dry as doz's narratives of historians, would appeal better to the imaginative interest of the student.

Of course great care ought to be taken un our estimate of the value of each original authority Mengre annalists may come side by side with statesmen and soldiers who narrate elaborately their own actions But a cautious indication of the value of each extract and a general introductory treatment of the scope and value of the whole collection may prove to be substantial correctives against the formation of mistaken ideas and hasty conclusions There is also ever present the danger that the material available for the student may be insufficient for a completo study , but here sgain a supplementary reading of higher books may be expected to remedy the defect

It is a matter of deep regret that up to now practically no effort has been made to present original extracts for the various periods of Indian History in much a way as to attract students. Well-directed efforts at the production of suitable source books on Indian History are certain to remove that indirect acression to study their own history which now exists in the minds of our school going fast. These might consist either of collections of efficial papers and documents or of volumes of

extracts from contemporary chronoises, or of both And it would prove a great step in advance towards the accomplishment of this task if teachers and I ctorers familiarise their suidents with the most important of the original sources of our history

C S SRINIVABACHARI

HENRIK IBSEN

PORDIGNNESS has a glataour for humantry, irrespective of intrinsic merits. Perhaps, the greatest adapters of Prench, German or Norwegian literary work are found in England, and it may be said that English iterature finds some of its warmest and most eloquest admirers in India. Such admiration woold seem to be due to the human human tendency, expressed in the adage. 'D stance lends enchantment to the view.' Much of the admiration which falls to Ibser's share, at the present day, cannot be traced to any other ranse.

Ibsen's fame rests chiefly on his social dramar. One thing, at least, becomes patent on a study of these plays—thousition's extreme succerity and the nobility of his ideal. There is, however, room for doubling his wisdom in his choice of the dramatic form for the expression of his ideas.

The adoption of a particular literary form imposes serious restrictions upon a writer. The indicas themselves must be capable of being put into that form; and then, the writer must be capable of the task. The nobility and grandeur of liberals ideals cannot be doubted. The spirit of his writings is the same as that breathed in the works of such ardent reformers of humanity as Ruskin or Carlle, or in a less osterlations way, of Tharkeray

and Dickens. Their main purpose is to war against lies—social, political, or moral—which present-day society is steeped in. The dramatic form is by no means, is adequate for the expression of such feelings; but one is often compelled to conclude that Ibsen would have done better to follow in the wake of Raskin and Carlyle. Dramatizing is an art by itself and Ibsen is far from having acquired it to perfection.

Our; author always keeps his main end in view, but his productions do not convey his feelings to the full. One of his most noted dramas, "The Pillars of Society" is devoted to the task of exposing the conventional lies on which society is built. The effect intended. however, is not produced. Though the reader cannot fail to see that society is supported on lies, no deep sense of resentment is roused in him. That modern social life is built on a far-from sound basis is patent to most men, What is not quite clear is whether society is any the worse off for being founded on false. hood. Evidently, Ibsen does not consider it a satisfactory state of affairs; but that he so considers it is by no means made plain. Consul Bernick maintains his position throughout by a series of lies; yet it is not clear how his position is worse than that of a persistent lover of truth. As long as the desired object is gained (maintenance of a high position, in this case), what matters it whether it has been got by fair means or foul? It might be said that the nature of the enjoyment might be affected by the nature of the acquirement; ill-gotten wealth never lasts. Indeed, this is what our customary moralists would say : and this, in all probability, is the lesson which Ibsen wants to inculcate. If so, he lamentably fails to make himself clear. The play, as it stands, may be construed as a

defence of conventional lies on the pleathat they constitute the foundation of society. The drama, as a whole, is flat, stale and unsubstantial. So much have we got ourselves accustomed to our present social life, that though we know its false basis, we do not much mind it. The phenomenon is very familiar and seems to need no Ibsenite comment. The more need for reform, it might be urged; for a society composed of such reckless members is bound to fall. The question here, however, is "Does the play itself inculcate the lesson?" it; the premises alone are given; the conclusion must be drawn by the reader. according to his individual temperament.

The same charge applies to Ibsen's other social plays. The 'Ghosts' is remarkable for nothing but its extreme weakness and its spectral effect. The thome of the play seems to be the very familiar scientific truth, the sins of the father are visited upon the children. All the characters are weak and sestimental. None of the dramatic persone: deserve the reader's sympathic, except, perhaps, poor Oswald who is visited with punishment for no featif of the children.

It cannot be denied that Ibsen possesses several of the union perfections of a dramatir, to the foll. A strong hold of the main corception and the adequate expression of it in dramatic form, be is, however, incapable of. His plays by themselves are expressionless. One can never know by a bare study of the "Folkkeden" whether Ibsen regards his here as really, a fiende or a friend of society. His sympathies, for angth we know, may as well be with the Burgomaster Stockmann as with the Ductor. The reader has to supplement the study of the play with an independent

dent knowledge of the anthor's views derived from his other works. The 'Ecemy of Society' labours under serious difficulties. There is no denouement. The author tries to obtrude his own personality into the play and miser ably fails. The play ought to begin with Dr. Stockmann as the teacher of ragamin fischildren and end with him as medical officer of the reformed baths. It is the latter half which is more important and expressive, and it is this which is most neglected by libsen.

"Rosmersholm" may be said to be in many respects a better play The 'spiritual tragedy' as the translator Dr William Archer calls it is finely worked up It, nevertheless. fails to appeal There is something palpably unsatisfactory and unreal (if the compound be permitted) in the sudden denouement There are, indeed, some fine touches as where Rosmer (Othello-like, but for a different purpose) cries out for proofs of Rebecca's love This love, again, is sprung upon us all of a andden. The reader is from the beginning led to expect a scheming heartless woman (like Thackeray's Becky Sharp) is, in the end, presented instead with a woman who can love and has learnt to do so. The trans formation is supposed to have been effected by her having lived with Rosmer and imbibed the Rosmersholm view of life What that yiew is, we are not allowed to know definitely It is difficult to conceive of a transformation of selfish passion into love, effected purely by yours of life, however exalted they may be. What makes the transformation more absurd se that it is attributed to Rosmer the weakest character that can be met with in any play

This play is supposed to possess the further ment of accurately depicting party-feeling

In this respect, too, it is a failure. Party-feeling does seem to have been pretty strong at the time. We are introduced to it, however, only indirectly but for the short extract from the 'Country Neces,' which cannot seriously be said to exhibit artistic ability. The only lesson that a reader can learn is what Brendel calls 'the mighty secret of action and of victory,'—to be capable of living a life without delay.

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Ibsen, if he is respected as a reformer, must base his reputation on his other writings and speeches But for these, the identifica tion of Ibsen and Dr Stockmann would be impossible. His plays do not satisfy the principles of true dramatic art. He leaves his bero (Dr Stockmann) in a distressing strait with no belo but that of poor Horster It m cht. perhane, he said that such a picture is most true to life, and such an end, possibly, the most appealing to men Nothing, however, can be more erroneous. One need only compare the impression produced by any of Ibsen's plays with a simple novel like Nicholas Nickleby or Oliver Twist to convince oneself of the error. The beroes of these two novels do not perish miserably nor do the authors of mischief triumph in their evil Yet Loglish society was not long in opening its eyes to the evils in its midst. Do-the boys. Hall was not allowed to flourish, because its founder eventually perished ; nor was the mismanagement of the poor houses tolerated, because Oliver escaped and got into a fortune little theory of the Ibsenites were true, the writings of George William Reynolds should have been most effectual in rousing popular indignation against social evils, whereas they only concentrated popular redignation on the author himself Ibsen follows neither the principle of the Romantic drama (following up the development of a character to its final triumph or defeat) or that of the classic drama (wherein the effect of the body of the play must slways be mitigated towards the end). Perhaps, Dhesr's whole life might be the basis of a good play, as would Dr. Stockmann's, if presented properly. His writings, however, jadged as drama, baye lutte or no merit.

S. S. Subyanarayanan.

EDUCATION IN MYSORE.

THE R-port on Public Instruction in Mysore for 1911-12—a review of which appeared in the Educational Review of August last—in a belated document and does not give as correct ideas of the progress of education in this "Model" State. It is to the financial etatement of the Government of Mysore for 1913-14 and to the proceedings of the last Representative Assembly that we should turn our attention to understand how shairs stand.

The Government in their review on the report of the Inspector-General of Education for 1911-12 say that "the year was one of study and substantial progress in education." The number of educational institutions and of the pupils in them have risen and in spite of the plague havor, the percentage of boys and girls under instruction to the total male and female population of school-going age is now 30 1 and 6 2, respectively. The expenditure on education has increased to Re. 19,50,000 and the average expenditure on education per pupil was Rs. 0.5-8. Educational buildings have increased in numbers, and arrangements were made to equip the colleges in accordance with the requirements of the University Regulations. Progress both in Secondary and Primary education was encour-

aging Female education continued to increase in popularity. Mahammadan education has also progressed though not to such an extent as it is descrable it should. The Government note with regret that there has not been any appreciable increase in the number of Muhammadan hove in the College and High School classes which continued to be small. Backward classes have taken to education and it is satisfactory to note that during the year under review seven Panchama students passed the Kannada Lower Secondary Examination with five in the first class, that a League for the express purpose of advancing Panchama education was formed and that the League pays fees, etc., to Panchama boys, Technical education is advancing and Sloyd which is so excellently adapted to train and give a practical turn to the youthful intellect has made good progress. The school for the deaf-mutes and blind is maintained in a high level of efficiency.

So fer everything is satisfactory. But there is good deal to be done before Mysore can set an object lesson to other Native States and the British Provinces and there is every indication that the Government is in right earnest about the progress of education. The Mysore Legislative Council has recently passed the Elementary Education Bill-a bill drafted more or less on the same lines as the, now historic, bill of the Hou-Mr. Gokhale. The bill is a modest one as the Dawan has observed, it is a measure full of possibilities and the experiment will be watched with very keen interest all throughout India and it therefore behaves the Mysore educational authorities to so work the provisions of the Bill as to obtain the best results. They will doubtless bear in mind that real progress could be achieved in Primary education only, in the language of the Government of India, "where teachers in Primary schools will receive considerably higher remuneration, when all teachers will be trained and when it will be possible to introduce more modern and elastic methods in Primary schools." No primary teacher in Mysore Government schools draws a salary less their repees ten per month. Even this is low. Might it be suggested for the consideration of the authorities that this amount might be raised to Re 12.2

As for training of teachers, we feel provi sion is very inadequate. The Government maintains one Normal School in Mysore town and two schools in the districtsat Kolar and Shimoga-for the training of male teachers. There are in addition the training classes of the Maharani's College, Mysore, and the Wesleyan Musion Girls' Normal School, Bangalore, for the training of mistresses The Mysore Normal School is the most important of these and is at present under the care of a very enthusiastic and experienced BA, L1 It has an Caplish training class for Matriculates and S I. certificate holders. It also trains teachers for the Pondits' and Monlyis' examination, the Upper Secondary Examination, the Unner and Lower Secondary Training Examinations, the Madrus Technical Examinations and the Lumination for Practical Agriculture The Kindergarten Department and the Drawing Section are in a very efficient state. The school has many wants It is now housed in an old and inconvenient The Library consists of mostly old and out of date books. It needs better equipment In these respects it compares very unfavourably with the Training Schools of the Madray Presidency and of Travancore

We find that in the budget estimate for 1912 13 Rs 20,816 was allotted for this school but in the revised estimate the amount was cut down to Rs 14 900 and for 1913 14 the amount budgetted is only Rs 16.002 This is deplorable. The District Normal Schools too did not fare better budget estimate for last year for these two schools was Ra 25,570 and in the revised estimate it was cut down to Re 19,520 and the amount provided for the current year is about a thousand rupees more than the revised estimate. It is clear that the Education Dapartment has not f and it possible to make full use of all the grants placed at its disposal and it has evidently no clearly defined pro Primary schools without trained gramme teachers and trouped teachers without schools are an anomaly and the aim must be to provide both side by side Upon the teacher rests the grave responsibility of being in someways the most important factor in educational progress The Royal Commission on Secondary Education (London) have expressed ' Lducational reformers have long recognized that of all improvements that can be made in schools, none are more important, none nerhans so important as those which lead to secure a supply of able and skilful teachers" School houses, equipment are matters of secondary importance. It is very recrettable to note that neither in the speech delivered by the Dewan to the Representative Assembly on Saturday the 11th matant, nor in any of the speeches of the Representatives, the important question of the training of teachers was so much even as made mention. The Mysore Government will, we think, be well advised if it should concentrate its present resources to the amprovement of existing institutions before venturing on such costly schemes as

the Mysore University and compulsory technical education.

Turning now to the actual progress of Elementary education, in recent years, we learn from the Report of the Inspector-General that there were in the State 1935 Primary schools for boys-Departmental, Municipal, Aided and Un-aided-and about 222 schools for girls. The number has increased during 1912-13 by nearly 90. The Dawsn in his recent speech said that the percentage of boys at school to the male population of school age rose from 80 1 to 31 3 and that the girls at school to the female population of school age from 6-2 to 6.8 The number of pupils under instruction in comparison with the population of the State gives a percentage of 2-9,

The Government of His Highness state in the Financial Statement (para. 67, Mysore Gazette Extraordinary, 8th August 1913); "Another minor head under Education, the increase under which is very noticeable in the Budget for the current year is Grant-in-Aid under which a sum of Rs. 3,97,000 is provided. This includes a special grant of one lakh to the Village School Fund for Elementary school buildings. A sum of 50,000 is provided for this purpose in the Budget of the Village School Fund from the resources of the fund itself, the amount that will be available this year for the better housing of primary schools will be 1.50,000. A similar amount was also available last year and arrangements were made by the Inspector-General to utilize the amount by building masonry school houses according to type designs in about 75 large villages through the agency of the Public Works Department." It will thus be seen that the Government naver

stinted money for education with its means limited as they are. As the Dewan said to the Representative Assembly: "A special grant of two lakbs and a half-one lakh for opening new Primary schools and improving the existing ones and a lakh and a half for the construction of village school buildings was sanctioned during the year and a similar special grant of 21 lakhs has been sauctioned in connection with the current year's Budget," We cannot but regret that even these small doles were not utilized fully. It seems to us either that these amounts are budgetted without any definite programme or that the wheels of the departmental machinery move too slowly to utilize these amounts for the specific purposes for which they are ear-marked. In the revised estimates for 1912-13, the Government observes (para, 18), "The reduction of Rs. 1,61,000 under education is due to partial lapse of large lump sums, grants sanctioned in the budget for opening new schools and improving existing ones and for promoting technical education in the State generally. In spite of the best endeavours of the Department, schemes for the extensive operation designed to utilize the grants to the utmost advantage took some time to mature and could be introduced only gradually." Looking at it from the point of view of the people, it is most unfortunate that the Department should have allowed these large amounts to lapse. The Dewan has observed that no village should be considered as maintaining a fair standard of enlightenment which does not keep 5 to 10 per cent, of its population under education. This is a consummation to be devoutly wished in the immediate future. But what has the Government done last year? In Madras the Director himself

is on special duty developing schemes for the extension of elementary education Mysore the hands of the Inspector General of Education are always full The Government when allotting special funds ought to have deputed a special officer with excellent capacity for organization to the work of maturing plans for the improvement of Elementary education We are glad that this has now been done The Down in his speech to the Representatives appeared "In view of the growing Educational activities of the State and the need that is felt to ensure that the increased grants given are utilized to the best advan tage the appointment of a Deputy Inspector General of Education has been sanctioned This officer will be entrusted with the direct charge of Vernacular education both Elementary and Secondary in the State "

One brilliant feature of the Mysore system with reference to Primary education and which ought not to escape our notice is the School Committees constituted by the Gov ernment in the rural tracts to supervise the work of schools. The Inspector General in his report says "The School Committees con tinued to do good work during the year. In the majority of cases they were helpful in checking unauthorized absence on the part of teachers and in regulating school attendance Several of them took steps to provide accommodation for schools and teachers and to collect funds for executing small repairs to buildings that were in need of them They also rendered useful ser vice in bringing to the notice of the Department the urgent needs of the schools entrusted to their supervision" It is curious that the Government review makes no mention of the working of these Committees Clause 7 of Elementary Education Regulation

(Regulation 5 of 1913) runs as follows: "For the purpose of enforcing the provisions of this Regulation and rules framed thereunder one or more School Committees may be appointed for each specified area with such powers and in such manner as may be nece scribed." Clause 12 lays down that the Government may, by notification in the Gazette, makes rules to provide for the appointment of School Committees and to define their nowers and duties and to regulate in what manner they shall be exercised. Though this applies to areas where education will be made compulsory, still it shows that the Legislative Council and the Government have confidence in School Committees The existing School Committees of whose good work the Inspector-General makes special mention in his report might be utilized to select the areas where new schools may be started and to augrest schemes for improving existing schools. It is also curious that no one has till now urged on the Government the appointment of a mixed Committee of officials and nonofficials to devise schemes for the utilization of the special grants to improve Elementary education The Government of Mysore have in the Education Sub Committee of the Eignomic Conference a body of officials and non officials competent to go into the question The report of a Special Committee will be of immanse value to the Inspector General of Elucation It is the concern of every one interested in the progress of education in Mysore to see that the tale of last year is not repeated and that funds allotted for the spread of educat on are not allowed to lapse. The Dawan observed in speaking of these special grants that the "Government have no doubt that the Department of Fducation is fully alive to the responsibility resting upon

it for giving practical effect to the various important schemes that are being sanctioned from time to time."

Reference was already made to the Mysore Elementary Education Bill. We are glad that it received the assent of His Highness the Maharaja on the 11th day of October, 1913, and that it will be brought into operation immediately in selected areas. We do not expect much good from it immediately. As Mr. H. V. Naniundayva, the Councillor in charge of the Bill, observed, the Government "will begin with some of the larger towns here and there. The unpreparedness of the people is not the only restraint that will operate on the extension of this measure. The means of the Government to enforce it have also to be taken into consideration. We have already began by making primary education free throughout the State and if we are to create schools in all the places in the State so as to enable people to resort to them and to educate all their children, it would mean enormous expense. The elasticity of our revenue is not very great," We regret to find that in the course of the discussions in the Representative Assembly, the income-tax which was specially introduced "by way of a small contribution" for the spread of Primary Education was objected to and the Dewan. in deference to popular opinion, announced that this tax, unpopular always, would not be introduced for one year. We believe it is not intended to put back the hand of progress. The Dewan was glad to notice that some of the non-official members thought that the measure was not sufficiently strong. Mr. K. P. Puttanna Chetty was, we think, perfectly in the right when he said "whenever there is a school, let us make the attendance thereat compulsory. If you make it compulsory, you will double or treble the numbers attending them. When new schools are established, it would be a pity if you don't make the conditions somewhat rigorous. If you excuse a parent from sending a boy to school on account of sessonal conditions I fear the very object of the school would be frustrated." The Government of Mysore deserves our warm congratulations for having ventured on compulsion. The working of the scheme will, we once more assert, be watched with interest throughout India and we have sufficient confidence in the Educational Department of Mysore that it will work the Regulation with commendable anccess.

(To be continued.)

K. A. VIBARAGHAVACHARIAE.

EDUCATIONAL SERVICE IN INDIA.

INSPECTORS AND THEIR APPOINTMENTS.

ANY one who reads the history of Education at the present day cannot but be struck with the fact that there is universal discontent felt all over the civilized world with the results achieved in recent years in the field of Education. At the meeting of the Educational Science Section of the British Association held at Birmingham on 11th September 1913, E. H. Griffiths, Sc.D., LL D., F.R.S., President of the Section, delivered a most thoughtful address on "Educational Retrospect." He opened his address in the following terms :- "We have now had forty years' experience of compulsory education and more than ten years' experience of the working of the Education Act of 1902. We are spending at the present time out of our rates and taxes about 34 millions per annum upon

education. It seems reasonable as a nation of shop-keepers that we should ask if we are getting value for our money." He started certain inquiries and the result of his inquiries "had been the discovery, if discovery it was, that desatisfaction with our present system was the prevailing sentiment" Dissatisfaction with the education in the school is as widespread in Germany as it is in England and complaints are often repeated of the unsatisfactory results obtained for the money spent on schools The American has the same tale to tell There is no end to our complaint in India , our budget is a very long one and our only consolation is that we are not alone in this respect

One of the serious complaints we have in this part of our country is the way in which our Inspectors of Schools are appointed. their qualifications and claims for the place That the Inspectors play a very important part in the development of our educational system is a fact recognized by all The number of Inspectors has increased in recent We have at present ten, including the newly created one for Bangalore and Coorg Two of these ten appointments only are held by Provincial Educational Service men We understand-we cannot say this with any authority, for not even members of the Legislative Council are taken into confidence in such matters-that the Director of Public Instruction has sent up proposals for nearly doubling the number of Inspectors and adding these new appointments to the cadre of Indian Educational Service If such a proposal is really before the Government, it is time that the question of Inspectors is examined from every point of view

It has been remarked and with great truth that the Department of Education in Madras

suffers considerably from the rule of mediacres. The Indian Educational Service has cossed to offer accreasing attractions to the best educational talent, be the cause for this whatever it may Not only do the present day men-barring a few honourable exceptionslack the scholarship and erndition of Dr. Miller, Messra Powell, Porter and Kellett. they are also wanting in those characteristics which made the educationists of the former generation a power in the land The Indian student in the College classes has a keen intellect and he has his eyes wide open What respect will be give to his Professor who is not able to stand up for the independ. ence of his University? He reads that eminent educational experts all over the civil zed world are loudly proclaiming that complete control of education by bureaucratic state is very inexpedient Just the other day it was that Dr Griffithe was making the prononncement at the meeting of the British Association that 'it was necessary that Universities should be State aided but that there was the danger that the blight of uniformity and official control might descend upon them and that the freedom of the Universities was one of the highest educational assets of this country and that it was to the advantage of the community as a whole that each University should be left unfettered to develop its energies. promote research and advance learning in the manner best suited to its environment." He knows also that the Calcutta University as a body-official and non-official, Indian and European, missionary and non missionary -entered an emphatic protest against the interference of the State in University affairs He knows that in Bombay, a similar proposition will have fate for different from that at Madras.

Will not the student of the Madras Christian

College be right when he exclaims: "Oh! what a fall since the days of Dr. Miller!" His disappointment will be the keener when he learns that the proposer of the proposition is one nurtared in the best traditions of his college, that the voting in which his missionary teacher took part went on racial grounds and that a large number of European Follows left the meeting soon after the voting as if they were there by a mandate just for this proposition.

Just one more proof to show the kind of men we have at the helm of the Educational Department. One of the questions discussed the other day at the Senate meeting was the removal from the L. T. Curriculum of the History of Education. Much has to be said on both the sides of the question and the outside world would expect the Fellows to agree to differ. The Hon'ble Mr. V. S. Srinivasa Sastriar moved an amendment and one European Fellow was heard to ask Mr Sastrian whether he read any books on the History of Education, although these two gentlemen sat in the same board and though he knew Mr. Sastriar well. How shall we characterize this attitude of mind on the part of the European Fellow concerned? By a strange irony of fate this European gentleman has many Indian friends and admirers who have great confidence in him and is reputed to be very sympathetic and broad-minded.

The trath of the matter is that we have very few educational experts who deserve the esteem and confidence of the people, and this reflects itself in every department of administration, beit the work of teaching or of administration. The impression is gaining ground steadily in this country that the governing race thinks that any gculleman with a degree of any observe University—

European or American—is fit for any kind of educational work, provided the gentleman belongs to their race. To-day a third form teacher in an out-of-the-way Grammar School is England, to-morrow the Principal of a Second-grade College in Calicut, Tinnevelly or Coimbatore, and the day after, Inspector of Schools, sitting in judgment over scores of teachers who are intellectually and morally much his superiors but who labour under the great misfortune of being the natives of the soil.

Matters are no whit better in our University. The Syndicate appoints Inspectors to inspect Colleges seeking affiliation. Recently Mr. F. E. Corley was appointed to inspect the Trivaudrum College which sought affiliation for B. A. Honours in History. Mr. Corley is no doubt a distinguished English scholar and though not a specialist in History, happens to fill the post of the Chairman of the History Board of Studies, by the mere accidence that he lives in Madras. But the Professor of History in Trivandrum is a young man of rare attainments and of unquestioned authority in the subject. He is senior to Mr. Corley both as University M. A. Examiner and as a member of the Board of Studies. He is amongst the authors of the scheme of studies for the History Honours Course. No one could complain if Mr. Sturge of the Nizam's College had been appointed to report on the affiliation. Would Mr. Allen of the Presidency College and Mr. Macphail of the Christian College have allowed their junior to inspect their respective colleges. But the Trivandrum Professor is an Indian and this means a great deal.

Now let us turn our attention to the work of the "beardless boy Inspector of Schools." He has no special qualifications for the office. He has not undergone the requisite training for the new work If he is a specialist in one subject he has his fade and neglects the other subjects He does not know the requirements of the Indian schools and their limitations, nor does he understand the language of the people. He picks up the tricks of the trade and remembers stock words. correlation, concentric, heuristic method, etc., sits for ten minutes in one class and for fifteen minutes in another class, hears the specialist teach, at the same time examining the pupils' note books, takes notes. lauves the class and five or six months after the unspection sends in his report with some such remarks as " syllabus is not concentric. this teacher did not use the spoken or the modern Tamil in explaining his ideas in vernacular, there was no correlation of Drawing with History, space work is not attempted in Arithmetic, the teacher does not believe in marking system, the boys played at Tennis well and on enquiry it sometimes happens that no Tennis Club is attached to The Indian select master the school' in the meanwhile studies idiosyncracies of the Inspector, understands his fads, gets up a show for the Inspector's inspection, throws dust in his eyes by producing concentric syllabuses, with long lists of books for reference, heaps of exercise books carefully written to order, relief models, weather charts brush drawings, line of time in History, etc. The Inspector is easily satisfied and his knowledge of most of the subjects taught being surface deep, never bothers himself with details to understand if the work turned out was real and substantial Soon the Gazette announces his transfer as the Principal of Rajahmundry College or as a Professor in the Presidency College, A new

Inspector comes and the humb's schoolmaster has ouce more to adjust his mechanism to sait the caprices of the new comer To add insult to injury the Department drafts to colleges gentlemenlike Messrs Maybew and Yates who have shown to possess spec al aptifudes for Inspector's work In the Indian Police issued by the Carzin Government in 1904, mention is made of the fact that "in order that the members of the Indian Educational Service may keep themselves abreast of advances which are now being made in other countries in the science of education facilities are given to them while on farlough to study the theory and practice of all branches of education both in England and in other parts of the world " How many of the European Inspectors have taken advantage of the facilities given to them and what is their contribution to the literaure on the subject? Where are the special reports of our Educational Department? Where are our Matthew Arnolds, Joshua Fitches and Aclands? It cannot be denied that a majority of Inspectors fall far short of our ideals and that the Indian echool master is much dissatisfied with them, though he does not express himself so

openly for lear of consequences
Such is our European Inspector But education is bound to progress in the land Free
and compolsory education will become an
accomplished fluit at least in ten years. Our
schools, Elementary and Secondary, whose
number is stready increasing, will further rise
in number and in difficiency. The curriculum
of Elementary schools will be made more and
more to approximate to the needs of the
community. We have to profit by the expersences of other nations. The Secondary
echools must be allowed freedom to develop
along the lines of their capacity and instinct

and to build up a character and tradition quite their own. Our University onghit to be made an independent centre of culture. It must become national and Indian, with large endowments, satisfying the aspiratone of students in the dominion of learning and research, under the control not of a cancers but of the best takent available consistent with its resources. In the words of the Government of India, "the problems to be solved are so complex and the interests at stake so numerous that India is entitled to and colture that either English or Indian seats of learning can farmsh for her needs."

It goes without saying that the increase in the number of schools, the introduction of the School Final Examination and the gradual raising of the educational standard demand a substantial strengthening of the Inspecting staff. The State which aids schools with grants from public funds has a right to justst on its Inspectors inspecting the schools. The School Final system allows the teacher a certain amount of freedom. He can draw up his own syllabuses in many of the subjects, vary them according to the requirements of his pupils or the means at his disposal. He can lead pupils to acquire knowledge by their own independent work without drilling knowledge into them, and to cultivate self-reliance. He can combat also the attitude of mere passive listeners on the part of his pupils. He will determine to a large extent which of his pupils are fit to go up to the College course. There is thus a great deal entrusted to him. In this very difficult task he needs all the help, sympathetic guidance and judicial control that a well-qualified Inspector can give him. There is also the danger that even the most capable of teachers may in the course of a few years become fossils incapable of new ideas. Inspection is one of the contrivances by which this may be avoided. It is also a guarantee against indolence or perversion of trust. Here as elsewhere there is doubtless the danger that the teacher may be fettered by regulations and bothered by foas of individual Inspectors. This can be easily provided against. A really good Inspector will realise that be is part and parcel of the school and will be prepared to allow sufficient freedom of self-development to the school within the limits of doing justice to the children taught therein. But we want the best men available for the work.

What is wanted to meet the present requirements of the situation is the sympathetic recognition on the part of the Government of the just claims of Indian graduates to important posts in the Educational Service. Sometime back in reply to a question put in the Legislative Council rs the appointment of Indians as Inspectors of Schools, the Government replied that there were in the Department none competent for the place! It is hard to expect the Englishmen in India to say anything else. There is reason to fear that vested interests will once again raise the cry of inefficiency on the part of Indians in the evidence before the Public Service Commission. Indians in the Educational Department owe a duty to themselves and to their country at the present juncture. They should protest against such a view gaining ground. Inspectors, good, bad, indifferent, both among Europeans and Indians. The Government appoints an Indian Sub-Assistant Inspector at the fag end of his service as an Inspector, and comparison is instituted between his work and that of a young man full of enthu-

siasm appointed straight to that work, with the result that the Indian suffers by comparison Indian Inspectors of the type of the late Messrs Williams Pillar and Raghnnathachariar were more or less ideal men At the present day, we have in Rao Bahadur A C. Pranatharthibara Aiyar one of the very capable of our Inspectors. He may have faults, but has done far more for education in his circle than other Inspec tors can lay claim to The schools in his circle are in a very efficient condition knows every school thorong ly, its teachers and managers sa well fife is a man of ideas and keeps himself in touch with the latest phases of thought on the subject of education He guides the courses of study as well as any specialist While aiming at uniformity and a higher standard be encourages teachers to work out their own system Above all he is tactful and is never offensive, moves with the teachers as if he is one among them and stands by them to better their pay and prospects The progress of education in Bangalore of which so much was written in the editorial columns of the Madras Mail recently is due to his powers of initiation To him again we owe the organization of apecial lectures for the benefit of primary school teachers. This is a record of which any Inspector might be proud. It is idle to assert that Indians are not qualified to be Inspectors Both in and out of the Departmer t we can name hundreds of persons who, with opportunity afforded and with special training, can make themselves extremely useful as Inspectors

I lay before the readers of the Educational Review the following proposals for consideration The purpose of the present article will be served if these proposals stimulate thought and discussion. It is high time that the Conneil of Native Education, the South Iodia Teachers' Usion and the premier Association of Teachers, the Madras Teachers' Guild, rouse themselves to a sense of their responsibility. My proposals are—

- (1) That for the Presidency there must be fifteen Inspectors of Schools, districts with a larger number of schools being allowed one Inspector,
- (2) Three of these only to be Laropeana and their pay sufficient to attract men of superior qualifications.
- (3) That ten of the fifteen Inspectors be appointed from the ranks of Lecturers and Assistant Professors of our educational institutions and from among our BA Honours men or Masters of Arts and that the pay of these Inspectors be R-400—25—700
- (4) That the men so appointed be under probation for a period of two years under the samor Inspector of Schools and do wiss Europe and America to study methods of teaching

EDUCATION

THE HIGH SCHOOL TIME TABLE. THE Time Table is every-body's dread in

the High School It takes up a considerable part of the headmaster's time and he avoids nearing it for an alteration as if it were bramble. The assistant master spouts forth his lips at it as if it were something incorrigible and intended as a means of an appance to him. The school boy himself,

A paper read by Mr N Veckstachariar B.A., L T History Ass stant High School Tirucatto palls at the meeting of the D s rict Teachers' Association Taylore

with his usual candour, characterises every time table he may have to follow as 'worthless,' prescribing as it does, History and Geography for two consecutive periods, or combining drawing, Tamil composition and drill for a whole afternoon. And yet who does not know what a scientific time-table ought to be like? The qualifications and strength of the staff, the number of divisions in a form, the provision made for special class rooms, and the manager's own crippled resources have all more than a lion's share in the shaping of the time table and leave very little scope to the headmaster for the exercise of his scientific inclinations in the framing of it. In how many schools are there not teachers owning special permissions-very deservedly of course to come to the school every day at the beginning of the second period, or to be off during all the last periods in the evenings. All these conditions are sure to affect the time-table in the most unscientific and irregular manner, and the headmaster is not after all the most responsible for a had time-table.

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There are other aspects of the time-table however which we may consider more usefully this night. The allotment of periods amongst the various subjects should satisfy the ends of the curriculum, and conduce as much as possible to the drawing out of the powers of the children. I fear, however, in this sain many other things we are more or less guided by external considerations such as the results in the public examinations or the departmental 'tendencies' even when there are none.

9 or even 10 periods for English, 1 for translation, 1 for Tamil composition, 8 or 4 periods for Elementary Mathematics (14 or 15 periods for the subjects in the A group slone), out

of the 30 periods in the week is what obtains in many schools. S periods are also devoted to the two subjects in group C. This leaves only 7 periods for the 5 subjects under group B .- Elergentary Science, Indian History, Geography, Deawing and Physical Training, There is, certainly some discussion at the beginning, when the time-table is being framed, about the merits of these 5 subjects themselves, and some settlement ensues after a show of due consideration for the merits of the subjects 'Drill extra' is very often the verdict. Drawing gets I period. The rest of the periods 6 in pumber are divided amongst Elementary Science, Indian History and Geography equally. The Science teacher may get an additional period for Elementary Science by his kaleidoscopic presentation of Physics and Chemistry. This additional period is sometimes got from the 15 periods devoted to the subjects under group A. But such treatment, the other subjects do not seem to deserve.

Most of us believe that the changes that have been made in our Secondary educational system have been beneficial in many respects. But the time-table as is in force in many schools is not responsible for any such good. The allotment of the periods amongst the various subjects has very little regard to the merits of the subjects themselves and tends to frustrate the aims of the promoters of the scheme.

When the Matriculation examination obtained the schools had almost uniform time-tables and the allotment was thus-8 or 9 periods for English as now. I for translation I for Tamil composition (done along with Tamil) 6 or 7 periods for Mathematics. Indian History, Geography, Physics, Chemistry and English-History had each 2 periods. Drawing and Drill

had never more than I period each and often came ont of time. A vernacular or Sannkrit was faught for 4 periods. Carefully comparing this with what obtains now in many schools we find that the past and the present are shoulder to shoulder in many respects and the difference is slight and that not in the most desirable direction.

English, Translation, Tamil Composition, Indian History, Geography, Drawing and Drill are exactly in the same condition still Phy sics and Chemistry appear in the new guise of Elementary Science and have nearly thesame number of periods. The change observable is that the second language or its alternative. Sanskrit has disappeared altogether, and Mathematics is very much reduced in size The 11 periods formerly devoted to Mathematics and second language are now distributed amongst Elementary Mathematics, usually getting 3 periods, and two optional subjects (8 periods) which may be Mathematics and Physics, Physics and Chemistry, English History and Tamil or Sanskrit, but not Mathematics and Tamil or Sanskrit and Tamil Reducing the time allotted to Mathematics or giving an apportunity to abandon the Vernscolar cannot be calculated to tend to progress.

By fiction we retain certain things as good for os and are loath to part with them. Thus the fire press books in English and about 500 lines of poetry prescribed can easily be taught in the V and VI Fores with only 7 periods a week. But we must still devote a third of the whole week for the teaching of Foglish alone. It is by a fection again we consider the study of books to be much more necessary in the schools than the bringing up of shildren in the most healthy and robust condition. Although the study of Sanskrit is XIX.

not at all incompatible with the study of Tamil, still no provision is made in the schools for students wishing to take up these two subjects as their optionals

The objects of the School Final are praiseworthy, and the tyranny of set corricula, and external pressure not yet so great as to frustrate all attempts of the headmaster to make the time table as useful as necessary

A few periods now devoted to the teaching of English may be given to Elementary Science and Geography Only then these subjects could be taught as well as desired The 45 minutes period-system may be adopted and the whole day divided into 7 periods instead of 6 The last period every day should be given to organised games and sports Cramming need not be encouraged in schools by allotting to the subjects under group C, a large number of periods every week The syllabos itself may be more lemently interpreted by the teachers as well as the examiners 8 periods would be quite enough for the teaching of English History. Chemistry and Physics The periods thus saved may be used for bettering the condition of drawing Library periods must be provided The boys may be asked to read. then their non detailed or some other books. for themselves, the teacher only guiding them

Thus a great deal may be done to impart real education to the children in the schools, and it requires the careful consideration of the heads of institutions and their assistants Sofficient time should be given to each of the subjects and the aims of the promoters of the School Final scheme realised to the best of our shiften.

OV STUDIZ.

Studiz surv for diliet, for ornament, and for abiliti. Thair cheef yous for diliet iz in prieratinis and riliciting; for ornament is in discors; and for abiliti, is in the jujiment and disposezishon or binizines: for ecapert men can ecaicyat and perhaps joj or particyulorz, won bi won; but the joueral connects, and the plots and markiling or sfairs com best from

thoez that ar lurnid.

Reed not tu contradict and confyst, nor to bileev and tais for grantid, nor to fiend tase and discore, but tu wai and consider. Sum boors ar to be taistid, uthers to be swolced, and sum fys tu be chound and dijestid; that is, sum booes ar to be red onli in parts, uthers are to be red but not opprisal; and sum fys tu be red hoel; and with dilipens and attention.....Reeding maiceth a fool man; and conferens a redi man; and rieting an egact man; and thairfor, if a man riet litt, be had need hav a great memori; if he confer lith, be had need hav a presult wit, and if he reed lith, be had need hav men coning, to seem to not that he dath not.

Historiz maio men wiez; poets, witi; the mathmatics sutl; natyural filesofi, deep; moeral, graiv; lojic and retoric, aibl tu cuntend.

K. JOGATTA.

EDUCATION IN THE MAGAZINES-

Female Education.

Presiding at an ordinary meeting of the Pachaiyappa's College Literary Society, Srimati G. Paru Kutty Ammal, n.a., addressed the students on Female Education. She thanked them for the honour done her in asking her to take the chair. Although the Madras University had been in existence for more than half a century, only within the past few years had Indian, especially Hindo, ladies been induced to take to higher education and their number to-day was so small that it was hardly worth mentioning. There were no first grade colleges for momen, and among the second grade colleges beyond the Girls' Colleges in Mysors and Trivandrum, both maintained by the Governments of these States, there were no Government institutions of the kind anywhere in this Presidency offering special inducement for women to enter on a University course.

Indian women taken as a whole, are uneducated, illiterate and practically mute, which meant that half the population of India did not form an active agency in its progress. None would say that Indian women exercised no influence whatever. Within the domestic circle they were a power to be reckened with; far from helping the cause of progress they were with honourable exceptions, an obstacle to it, and the blame did not lie on them. The rigid and inelastic social system under which they were brought up, was responsible for it. Every person, man or woman, had almost a natural right to be given that training which would enable them to use their minds, so as to adopt themselves to the environments and to improve, if need be, the environments themselves in harmony with what was called the fine spirit.

in harmony with what was called the nos spirit In educating the women of India they were introducing no innovation. They were only following the best and noblest traditions of Arys Vartis, India called for the services and sacrifices of all her children, they would be proving untrue to themselves if they did nothing to dispel the darkness that enveloped one half of her children and made them unable to move onward with the progress of the times

Womanbood should be developed on purely assisted to the control to

After all the best education was that which made the mind to educate itself, everything must be studied, not at haphazard, but in a regular systematic and methodical manner imbibing the spirit of what had come down to them from the past and adding to it if possible

Education in Elementary Schools

The prize distribution to the populs of the V bubramaniyam Free A V Elementary School, Mint Street, Madras, was held in the school premises The Hou'ble Mr. T. V. Seshagiri Lyer spoke on Elementary Education in the course of which he said —

With reference to the nature of instruction that should be imparted in such schols, he was of opinion that they should pay more attention to the industrial side of it. He was accused by some as being against literary education. He wished to noint out in this connection that he did not depregrate literary education. He believed that they should have literary education. What he desired was that in cases where the students were not likely to go up for the higher course, and where the students were poor, they should not go in for literary education. There was an agitation at present in England to put a stop to literary education as far as possible, and that the education should be given in such a way that it would enable them to earn their livelihood. That ought to be the end and aim of education. He therefore asked the management to impart to the students some knowledge in arts, carpentary, etc., which would enable them to earn an honest hyelihood.

Vernacular in Indian Education.

In the course of his speech at the prize-distributton, Tuchinopoly, Mr Gardiner, Principal of the S P G College, Truchinopoly, spoke as follows about the Vernacular in Indian Education .-" I am glad to note that the original seed of the institution, its growth, and its fruit have all been ' Anglo-Vernacular' in character. That designation expresses combination and co-operation. although attempts have been made to set "Anglo" and "Vernacular" in opposition as if their interests could be antagonistic. That is a false patriotism which asserts that whatever is purely Indian is therefore better for India, whereas true patriotism claims that everything that is better for India must be made Indian, if not already Indian Japan recognised the folly of her boycott of Western knowledge and Western ideals, and as a consequence rose to the position she holds in the world to-day. In India the English tongue cannot be replaced even if we regard it simply as a bond of union among the educated whose vernaculars vary widely But it is much more than that It is also the medium for the exchange and assimilation of common sentiments and ideals between Britons and Indians. Until the educated classes are thus united by a common inspiration, they can never lead public opinion as the educated classes ought to do in every land Can it be denied that to-day in India the educated classes are still in many cases contented to be led by those of less enlightenment and wisdom? But much more is required The vernsculars are indispensable--not simply as an end in themselves, valuable as they undoubtedly are, but as a means of communication between the educated and others-the wires, so to speak, for electrifying and energining the nations of India The sourcated classes can no more dispense with the vernaculars than the uneducated, and those educated only on vernacular lines, an important section of society, can dispense with leaders and guides who have assimilated and naturalized, not merely borrowed or assumed, the learning and ideals of the West in the best way in which they can be assimilated in India, i.e., through the medium of a language of the West Spiritual, moral and physical truth and wisdom are universal in character, and it would be folly to attempt to localise them, or any of them as national in any land. In these days of enlightenment, however, nearly all men are as ready to learn from others as they are to teach,- ' to prove all things,' whether of foreign or indigenous origin and to hold fast that which is good,' wherever they may find it and in whatever form it may appear."

Industrial Education.

While declaring open the Fifth Industrial and Agricultural Cochie Exhibition, His Highness the Mahatsja gave out his views on Industrial and Agricultural Education as follows:—

The present occasion recalls to my mind the small gathering five years ago at the Viyyur Park, Trichur, in which I had the pleasure, as I have to-day, of taking part. I refer to the opening ceremony of the First Agricultural and Industrial Exhibition held in my State. The British Resident very kindly performed the opening caremony of the three following Exhibitions, and it has been a great satisfaction to me to have been able this year to be present at this interesting gathering assure you, Gentlemen, I have watched with pride as well as satisfaction, the gradual development of this movement which my Dorbar has inaugurated, and I myself have, at each successive Exhibition gained many a lesson of the immense possibilities of agricultural and industrial progress which Cochin possesses. These Exhibitions afford aseful means of comparison and stimulate emulation, and to them we owe to a great extent, the progress that has been made of late in agriculture and industries.

Agriculture which must be the main pursuit of every nation, may change its principles and methods with the advance of time, but it will ever continue to hold a fundamental position in the country. I have it as my constant aim and endeavour, as theralest or my Sirte, to promote chose bonds between the different classes amongst my supjects whose compation is agriculture. In the sum of the sum of

Science and technical improvements are the order of the day. Opinia, machinery, industry and skill require to be combined harmonically to preserve and maintain, in a condition of prosperiy in these days of kean competition, the vast population that life by agriculture, and I am population that life by agriculture, and I am consideration to the introduction of those achievement of the day of th

I sincerely hope that they may be initiated before long with the loving co-operation of my subjects. The account my Dewno has given of the Darbar's general policy and their past labours, will not, I hope, fail to convice my people of the deep personal interest I take in their sprical-

tural and industrial prosperity and my determination to do everything in my power to advance it.

Technical and industrial education is a thorny subject for experts, but, as a laymun, I may be permitted to say that, so long as a higher standard of industrial education is not introduced, step by step, in the public schools of the State, and the general education given to the population at large is not made less literary and more practical, I, for my part, do not hope for any material change or improvement. White, therefore, on the one hand we must encourage the industrial population to acquire a higher intelligence, we must, on the other, afford adequate incentives to those amongst the higher orders of society, who command capital and confidence, so that they may be able to acquire the art of co-operation and business organization. For some time yet we may have to depend on forergn countries for high technical skill and experience. I am closely watching this interesting movement, and, with the small resources that my State possesses, I am endeavouring to establish gradually a sound system of education which is best adapted to the requirements of the different grades of casts and calling amongst my people.

(FOREIGN)

An Apology for Pure Mathematics.

At the Mathematical and Physical Science Section of the British Association, Dr. II. F. Baker read an address which was devoted to an explanation of the justification of the pure mathematician.

He admitted that the mathematician, as such had no part in those public endeavours that arces from the position of our Empire in the world, nor in the efforts that must constantly be made for social adjustment at home. He was shut off from inquiries which stirred the public imagination; when he looked back the ages over the bistory of his own subject, the confidence of his friends who studied heredity and taught eugentes aroused odd feelings in his mind; if he felt the fascination which came of the importance of such inquiries, he was also prepared to hear that the subtlety of nature, grew with knowledge of ber. It was not logical to believe that they who were called visionary because of their devotion to creatures of the imagination, could be unmoved by such things. Nor was it at all just to assume that they were less conscious than others of the practical importance of them, or less auxious that they should be vigorously prosecuted.

INTRINSIC VALUE OF THE STORY.

Why was it that their systematic study was given to other things and not of necessity, and in the first metance, to the theory of any of these concrete phenomena? The reason was very much the same as that which might lead a man to abstain from piecemeal, indiscriminate charity on order to devote his attention and money to some well thought out scheme of reform which seemed to have promise of real amelioration Oue turned away from details and examples, henause one thought that there was promise of fundamental improvement of methods and principles But more than that The improve ment of general principles was arduous, and if undertaken only with a view to results, might be ill timed and disappointing But as soon as we consciously gave ourselves to the study of noversal methods for their own sake, snother phenomenon appeared The mind responded, the whole outlook was enlarged, muinte possibilities of intellectual comprehension, or mastery of the relations of things hitherto mususpected, began to appear on the mental horizon. However the fact was interpreted, our intellectual pleasure in life came not by might nor by power - arose, that was most commonly, not of set purpose-but lay at the mercy of the response which the mind might make to the opportunities of its experience When the response proved to be of permanent interest-and for how many centuries has mathematical questions been a fascination ?-it was well to regard it Farther, in our time old ontlooks had very greatly changed , old hopes, disregarded perhaps because undoubted had very largely lost their sanction, and given place to earnest questioning Could any one who watched doubt that the courage to live was in some danger of being swallowed up in the anxiety to acquire? Might it not be, then, that it was good for us to realize, and to confess, that the nursuit of things that were beautiful, and the achievement of intellectual things that brought the 10y of overcoming, was at least as demons trably justifiable as the many other things that filled the lives of men? Might it not be that a wider recognition of this would be of some general advantage at present? Was it not even possible that to bear witness to this was one of the uses of the scientific spirit?

THE SOUL OF THE SCIENCE

After referring to some of the broader issues with which pure mathematics was concerned—the calculus of variations non Eachidean geometry the theory of groups, the theory of algebraic functions, the theory of functions of complex

variables and differential equations, and the theory of numbers, heremark, that each of these was large enough for one man's thought, but they were interessed in interlaced to indissoluble fashion and formed one ningbit whole, so that to be agonized one own to be weaker in all Pure mathematics was not the rival, even less was it the handmad, of other branches of science. Properly perseed, it was the esseces and soil of them all

Our life was begirt with wonder, and with Reduce at by all means to rathless mechanism If that could be done, it would be a great achievement But it could make no sort of difference to the fact that the things for which we lived were spiritual. The fact remained that the precious things of life were those called the treasures of the mind Dogmas and philosophies, it would seem, rose and fell But gradually accomplating throughout the ages, from the earliest dawn of history, there was a body of doctrine, a reasoned insight into the relations of exact ideas, painfully won and often tested This remained the main benitage of nan, his little beacon of light amidst the solitudes and darkness of infinite space, or, like the shout of children at play together in the cultivated valleys, which continued from generation to generation Yes, and continued for ever ! A noiverse which had the potentiality of becoming thus conscious of itself was not without something of which memory was but an image. He must have studied nature in vain, who did not see that their spiritual activities were inherent in the mighty process of which they were part, who could doubt of their persiatence And on the intellectual side, of all that was best ascertained, and surest and most definite, of all that was oldest and most uni versal, of all that was most fundamental and far reaching, of these activities pure mathematics was the symbol and the sum

An Indian Alphabet

At the British Association in Section L—bdir cation—the Rer J Knowlee (Travancore), in a paper or 'An Indian National Alphabet,' stated that the necessity for it arose from the fact that though India had some 200 languages and dialects and, say, 50 different scripts there was no Indian alphabet properly so called (except for English)

The Indian scripts were really syllabaries, each requiring from 500 to 1000 complicated types to print. All the characters of a vertacolar must be mastered before any reading was possible and learning to read was as difficult as mastering system of shorthand. There were only 53 typical system of shorthand.

elementary sounds in the whole of the Indian languages put together, but there were 20,000 elaborate symbols used to express them. Many of the characters were extremely trying to the eve-sight and difficult to read, to write, and to print. The complicated syllabaries were the chief cause of Indian illiteracy, which was so great that ninety per cent, of the males and 99 per cent, of the females were unable to read and write. The simple remedy suggested for this lamentable illiteracy was an Indian national alphabet based upon the Roman letters, supplemented by the phonotypes of Sir Isaac Pitman and Dr. A. J. Ellis, with some Romanic letters for special Indian sounds. Such an alphabet would provide for an accurate transliteration of all Indian languages or for a practical phonetic writing of the same. In all. 53 types were suggested, but on an average only 37 were required for a vernacular. The letters were easy to read and write and suitable for printing, and with them an illiterate might be thought to read his mother-tongue in ten simple lessons. It was suggested that the Government should appoint a linguistic Commission to go thoroughly into the whole question, and that the British Association should take the lead in promoting a memorial to the Secretary of State for India on the subject,

Education in India.

The Dean of Manchester (Bishop Welldon) said that no responsibility lying upon the British Empire was so great as the responsibility for India. It was necessary to educate the people of India. whether they wished it or not. Only they could not give the people education, and expect them to remain as before they gave them education. Sooner or later, they must give them office and responsibility, but for his own part he oberished his faith in the duty and blessing of giving the people of India education, whatever in the far, far future might be the result apon the Indian Empire itself. But education was worthless without religion. He hoped and prayed that the authorities in India would look facts in the face. There was a saying current in the East that it was right to leave the peoples of the East religiously alone. That was an absolutely mistaken idea. They could not leave the religions of India alone. If they wanted to have the religions of India alone then our whole Government must leave India. It was utterly impossible to plant down a great Western civilization in an Oriental people without vitally affecting the religious of the East, and if they upset an Oriental's religious faith without giving him anything in lieu of it, they were certain to produce a demoralization of character. That demoralization

would show itself in the distillation and disloyalty, as present very limited, which would sarely such as the people became more educated, unless the education was based on religion. He realized that the Government of India could not be missionaries, but the Government must look, and he believed it was looking more and more with sympathetic flavour spent he work done by the missionaries.

THE UNIVERSITIES.

Rev. Dr. J. Watt has been appointed ordinary Fellow of the Calcutta University.

A contemporary learns that the Senate of the Calcotta Horvesty will avail themselves of the wait of Has Excellency to Calcotta in December next to present him with an address of welcome in a special Courocation to be held for the purpose. It will no doubt be a worthy way of ahowing the loyalty and respect of the University to Ilis Excellency.

Object of Simla Mission.

Sir Anhton Muhberjee, Vies-Chancellor, Calcutta University, who had been to Sinks, recently to duccuss educational matters affecting Bengal with the Government of India, has sturned to Calcutta. One of the principal objects of the mission was to secure more money from the Government of India grant for education for the Golenta University which will enable him to create new departments or extend existing ones, it is expected that, with the additional grant, the University will create one lectureships and appoint more University readers.

ALLAHABAD UNIVERSITY.

A Coavocation for conferring Degrees on graduates in Arts, Science and Law of 1913 will be held on the 19th November next. Only these graduates shall receive their Degrees at Coavocation who have given prior notice, with particulation of the coavocation of the property of the property of the property of the coavocation of the property of the property of intention to be present must reach the Begistrabefore the 5th November 1915.

Successful candidates for Degrees who are present at Convocation, and who have not their own gowns, can obtain gowns on hire at a charge of Rs 18 from the University tailors, Messrs Parfit and Co. who will be present at the South Hall Candidates must be present at the Soute Hall, Allandad, by 1 r M on the day of Conrocation, to obtain their gowns and testructions for presentation to the Vice-Chance-lior; otherwise they will not be admitted to Courcoation Candidates receiving their Degrees in absence shall be each charged Rs 10

Diplomas to absences will be usued direct, on application by graduates countersigned by Principals of colleges concerned, and on receipt of the fee of Rs 10 in each case

We are glad to learn that Pandit Manchar Lal Zutshi, MA, Head master, Government High School, Shahjahanpur, is a candidate for election as a Fellow of the Allahabad University He has been nominated by Mahamahopadhyaya Dr Gangauatha Jba Pandit Manohar Lel as a brilliant alumnus of the Allahabad University He is an educationist a scholar, a public spirited man He richly deserves to be sent to the Senate We have already announced the candidature of Pandit Gokaran Nath Misra of Lucknow and Munshi Narayan Prasad Asthana of Agra Other candidates we are told, are Mr Abbaya Chargo Mukern of Muir Central College and Mehta Jagannath Prasad of the Police Dapartinent There is a feeling that Pandit Ikbal Narain Gurtu should be a candidate too There are four vacancies to be filled this year by election by registered graduates -Leader

TECHNICAL EDUCATION

TYPLWRITER TOPICS

NOTICEABLE IMPROVEMENT IN THE POT

The Fox typewriter has been very greatly improved during the year in several of its mechanical features particularly the upper several of its mechanical features particularly the upper several representations of the Fox Type writer to have established an entirely new method for make established an entirely new method for make established an entirely new method for make because of the properties of the several representations of these experiments it has always because the several representation of the several re

REMINSTON THE LEADER AMONG TYPEWRITERS In every exposition of the past third of a

century, the Remington has received the highest honors wherever sought. Here are some of the landmarks of Remington history 1876. First public ancestance at the Centen

1876 First public appearance at the Centen nial Exposition Philadelphia

1893 Official Typewriter of the World's Columbian Exposition at Chicago

1900 Official Typewriter of the Universal Exposition at Pasis

1901 Official Typewriter of the Pan American Exposition at Buffalo

1912 Official Typewriter of the International

As a fitting climar, then, to the Remington achievements of former years, came the announcement, made during the past year, that the Remington has been chosen as the official type writer of the Pantur Pacific International Exposition at San Francesco, to be held in 1915

It is difficult, within the confines of a single stricle to tell even the main facts of the develoment of the Remington Typawriter during the year that has passed. The Remington Typeuriter organ ration has expanded notil in the United States alone there has been nearly a fifty per cent increase in the number of direct branch offices of the Remington, with a like increase in the number of sub offices, while in the other parts of the globe the expansion has been proportioustic

L C Surre & Bros Trrawritte

One of the most important features of the L C. Smith & Bros Typawriter that appeals to the users is the system of ball bearings. The import ance of this is explained in some of the company's advertising matter as follows.

Here is the secret of the superior service the L C Smith & Bros Typewriter renders

The operator of every typewriter is doing three things 98 per cent of her time-etriking the keys, shifting to write capital letters and return ing the carriage to start a new line

Everyone of these operations is made easier and quicker by the use of ball bearings—an exclusive L. C. Smith & Bros. feature

The various Correspondents of Schools and Colleges interested in Typewriting will be benefitted by the following article which appears in the Priman's Journal (the organ of Shorthand and Typewriting) published in London and dated the 27th September 1913:-

"Among the machines comparatively new to this market none has gained more friends than the L. C. Smith & Brox Typewriter. Another proof of the popularity of this machine is seen in the fact that the Dupon! Pawder Cx who some little willies are care the L. C. Smith Co the sensational tract and are new using more than 1,000 L. C. Smith & Brox. Typewriters.

We would just mention here that the machine has seen its way in several Schools and Colleges recently in connection with the Special Grants allowed by the Educational Department.

BOMBIT COLLEGE OF COMMERCE

In a Press note of May 1913 the sanction of the Secretary of State was announced to the scheme for the establishment of a College of Commerce in Bombay and it was stated that the Secretary of State had been requested to select a suitable candidate for the post of Principal of the College, The Secretary of State had recently informed the Government that a suitable candidate has not yet been found. Although great difficulties have presented themselves in the way of an early opening of the College, partly owing to the above reason, partly in connection with the question of accommodation, and partly because of the recently introduced changes in the University calendar, the Governor-in-Council announces in a Press Note that it has been possible to concert provisional arrangements, which will admit of the original intention as to the opening of the institution being carried into effect.

The Government makes the following provisional arrangements in the College profile arrival of a permanent Principal from Expending arrival of a permanent Principal from Expending arrival of a permanent Principal (From Expending Allenders Park, L.T., 76 A. A (London), to act as Principal (Honorary, Mr. Nikanath Sadahiya Takakhar, La, to act as locturer in English Mr. Emenbandra Malahar Fotol, Mr. A. L.L., to act as locturer in College Market (Principal Market Malahar) (Principal Market) (Principal Marke

The College has started work on the 22nd instant in the Elphinstone College Buildings, Esplanade Ruad, and the hours of attendance will

be from 8 to 10 s. m. and 5 to 7. p m. Candidates that have passed the Intermediate examination of the Madras University are eligible for admission. The first University term will be from the 22cd instant to the 22nd December, the 2nd term from the 1st February to the 30th April and the third and the last from 15th June to the 15th August. Students must attend at least 3/4 of the lectures This College will delivered during the term. prepare candidates for the Bachelor of Commerce degree recently instituted by the University of Bombay at the instance of Mr. K. Subramani Iyer, Honorary Principal, 89, Appello Street, Bombay, to whom applications for admissions are to be made.

Reviews and Notices.

Pope's Essat of Man: edited by A. Hamilton Thomson, M.A. (Cambridge University Pages.) 21.

The annotated editions of the Pitt Press Stries have very few rivals in point of steellenas and comprehensiveness. The latest addition is Doyle Fray on Man by Mr. Thomson. In addition to the usual well-written introduction, it has got an elaborate angles of the poon white with the control of the string of of

A PROGRAMME OF EDUCATION, BY MR. J. READY-MONEY. (THE TIMES PRESS, BOMBAY).

Mr. Readymoney has attempted to set forth an ideal of education, based on the free development of the child, unchecked by the shadler of escholatic roution and discipline. We do the child the child of the child the state of the child the state of the state advantage of the pre-billity of good results from it. It is not probably not fait to judge an educational pre-billity of good results from it. It is not probably not fait to judge an educational state of the state of

REPORT OF THE COMMITTEE ON HIGH SCHOOL

Traching in English: 1880ed by the National Education Association of 122 United States.

Though an institution of very recent origin, the National Education Association has been

showing useful activity. The pumphlet under review contains an examination of the sims of Secondary education in English and has some surgestions for their effective execution.

STUDIES IN ENGLISH IDIOM, BY G BRACKENBURY, M A (MACMILLAN & Co LTD.) 1s 6d.

This is a valuable exposition of the principles of English grammar in relation to the practical work of composition. There are chapters on the suital dissists of grammar, but afterition is concentrate chiefly on the work of exhibiting models and affording useful exercises to the student. We wish the author had added some chapters on the other control of the student of the suital error. An appendix of phrases should also have been useful

Introduction to the Study of Faglish Litera ture, by W. H. Stephens, B. A. (Macmillan & Co. Lop.). 14 6d

Mr Siephens book is not only a short manual of the history of English literature, but also a treatise on the principles of style and Rhetoric There is a survey of the development of Lugish literature in the first half of the book part cularly adapted to the elementary student and receal commendation is due to the simplicity and clearness with which the paragraphs are arranged A very successful attempt is made to familiarise the student with the various branches of prove composition and their distinguishing characteristics of form and spirit A beginning is also made in the study of the History of the Lughish Language by a treatment of subjects like the Aryan family of languages and the borrowings of Faglish from other languages A chronological table of authors and their works and an explanation of some of the technical terms of literature enhance the value of the book

THE TEMPEST, BY WEEKER AND ALLEN: JOHON SHAKESPEARE SERIES (UNIVERSITY TOTORIAL PARSS) 14

We have had occasion to draw attention from time to time to the excellent series of editions of Shakepear's plays issued by the University Tuto rial Press. The rolume under review is intended for elementary students and the editional matter is appropriately enough of as impler kind than what is found in their usual editions. The book is preferred with a necessary account of the life and work of Shakespeare. In these days of attractive books for children, the University Tutorial Press might have provided the book with some illustrations.

HIGHBOADS OF LITZEATURE: INTRODUCTORY AND FOURTH BOOKS (THOMAS NELSON AND SONS) 10d. & 1s. 6d.

Messrs Thomas Nelson and Sons have been producing a remarkably beautiful and useful series of books in their Highroads of Literature have not seen the like of them in the elementary educational world either in their capacity to kindle a love of literature or in their appeal to the artistic sense of the young readers The child is introduced to almost all the well known personals ties and works of literature and the coloured plates contain famous masterpieces of painting which illustrate them admirably We have not been able to discern any lapses from the spirit of clear ness and simplicity so necessary for books of this We confess the series has made us wish we were at echool again !- to enjoy the privilege of reading such volumes instead of the dull and sombre manuals that were placed in our hands in the days of our childhood. One can only envy like Dr Johnson, ' the young dogs of this age

We are sure the publishers could have found a more eddying illustration for the lesson on Tennyson, than that of the poet sweeping his garden at Farrington We have no doubt it will be replaced in the next edition

School Arithmetic, by Clement Johns and P H Weres (Edward Arnold) 45.63

This is a welcome addition to the copious number of books on 'arithmetic' which have recently appeared. The authors have tried to further break down the barriers which divide the several parts of Flementary Mathematics by devoting a chapter to generalised arithmetic and freely using algebraical methods in the solution of problems and also by introducing a good amount of the 'arithmetical' part of geometry and mensu ration. Graphs are used only where they are found to be convenient or necessary There are a good number of problems taken from practical life. are from "strium trades and professions" As regards the teaching methods indicated in the book, we are glad to remark that their introduction to generalised arithmetic and the illustration used in the solution of equations are excellent, but we are not able to say the same of their methods of dealing with multiplication and division by fractions and decimals Though the book is claimed to contain elementary notions of Algebra, we were not able to see anywhere a freatment of the

multiplication or division by negative quantities.
The illustrations and the general 'get-up' are
very attractive and there is a large collection of
examination papers set by various examining
bodies in England.

AIDS TO LAW SERIES: THE LAW OF OBLIGATIONS IN BRITISH INDIA. Vol. I.- STATUTE LAW.

PART I. THE CONTRACT ACT, THE SPECIFIC RELIEFACT, AND THE NEOCTIGHE INSTRUMENTS ACT: BY S. VERKATAGEHRIER, B.A., M.L., ADVOCATE, HIGH GOURT, MADDIAS, PORLEMBRES: P. R. RAMA AITER & CO., ESPLANADE, MADEAS, P.Y.GE R. 3.

The book before as is aridently the first instalment of a series of notes to be published on the Law of Obligations in British India. From the division appearing on the title page of the book, one would take the author's plan to be to bring out some volunes on the Common Law of Obligations also in British India. But, in his preface, he tells us that be proposes to deal only with the bells us that be proposes to deal only with the bells us that be proposed to the law of Obligations bluedly to the Statutery India to confine the bluedly the Statutery India to confine the other proposes to deal to confine does will it be the omitted the division. "Vol. I, Statute Law" from the title page, as it is apt to misted the reader.

Regarding the merits of the book, we are of opinion that it will be very useful to students of law. for whom it seems to have been primarily written. We see that the learned author has made several useful extracts from the suggestive notes contained in Dr. Stokes' Anglo-Indian Codes. He has also pointed out the differences between the English and the Indian law, wherever such differences require to be pointed out. The cases cited by him are very select and are of the latest decisions of the High Courts. The book would probably have been rendered more useful to the class of readers to be benefited by it, if the learned author had been less teres in his foot-notes As it is, however, we are sure it will not fail to be an invaluable aid to all concerned in the study of our law. The get-up of the book is reat and attractire.

PUBLICATIONS RECEIVED.

A School Arithmetic, by A Clement Jones, M.A., and P. H. Wykes, M.A. Loudon; Arnold. 4s 6d.

Dramatic Scenes in Easy French, by Mrs. A. G. Latham, London: Macmillan. 1s.

Erckmann-Chatrian Le Blocus, by R. F. James, B.A. Lundon: Clive. 1s. 6d.

Shakespeare's Tempest, by A. R. Weekes, M.A.'
and F. Allan, B. A. London: Clive. 1s. 4d.

A Social History of India, by George Guest, B A.
London: Bell. 1s. &d.
Preliminary Franch Course by H. F. Chaytor

Preliminary French Course, by H. F. Chaytor M.A., and H. E. Truelove, B.A. Loudon; Clive. 2s. 6d.

Problem Papers in Arithmetic for Preparatory Schools, by T. C. Smith, M.A. London: Bell. 1s. 6d.

1s. 6d.

A First Course in Projective Geometry, by E. H.

Smart, M.A. London: Macmillan, 71, 6d.
Deutsches Heft: A German Note Book, by W.E.
Weber, Cambridge: University Press, 1s, 6d

Pitman's Commercial Series: Readings in Commercial Freuch, 1s. net.; Readings in Commercial Sonuths, 1s. net.; Readings in Commercial German, 1s. net.; Shorthand Instructor (Contenny Edition), 2s. 6d.; Book-keeping for Berliners, 1s.; How to write a Good Hand, 1s. London: Pitman.

High Roads of Literature, Introductory, 10d, Fourth Book, 1s. 6d. London: Nelson-

Pope's Essay on Man, edited by A. H. Thompson, M.A., F.S.A. Cambridge: University Press.

The Children's Anthology of Verse, Part I, Junior, 4d. Intermediate Part 11, 4d., Senior, Part III, 4d. London: Macmillan.

Shakespears's Much Ado About Nothing; edited by S. E. Goggin, M.A., and F. Allen, B.A. London; Clive. 1s. 4d.

The Gospel of St. Loke, edited by J F. Richards, M.A. and T. Walker, M.A. London: Clive. 1s.

Exercises and Problems in English History, by W. J. R. Gibbs, B.A. Cambridge: University Press. 2s. 6d.

Barke's Thoughts on the Cause of the Present Discontent, edited by W. Murison, M.A. London; Clive. 24, 6d.

Preliminary English Course, by A.M. Walmsley, M.A. London: Clive. 1s. 6d, Preliminary Geography, by E G Hodgkison, BA, FRGS, London Clive 1: 6d

Victor et Victorine by Madame J G Frazer

A First Book of Practical Mathematics, by T S Usher Wood, B Sc., and C J.A Trimble, BA London Macmillan Is 6d

The School Algebra (Matriculation Edition) by A G Cracknell, M A , BSc , F.C P. Loudon, Clive 4: 6d

British Administration in India, by C Anderson, M A. Bombay Macmillan Re 1 12 0 The Continent of Europe, by Lucuel W. Lyde,

The Continent of Europe, by Lionel W. Lyde, MA, FRGS London Macmillan. 7s 6d net

A Geography of the British Empire, by W L Banting M A, and H Collen, M A Cam bridge University Press 3: 6d

3ndian Educational Hotes

The American College Malayala Samaj—The both burthday of His Highness the Malarayah of I-rayancoru and the first anniversary of the American College Malayala Samaj Madours were celebrated together on the 6th instant in the Assembly Hall of the College Mr k. P. Gopala Menon, Bar st.Law, presided Many respectable gentlemen were present on the occasion

The proceedings of the avening commenced with a Sonal The Malayala students of the College entertained those present with humorous speeches, magic, farme and damb show After the anonal report of the working of the Sumsy during the pass year was read, Mr. A. Kommar Fillst, a member of the Sumy read an erway on I oyally "groung there with an account of the Malayala with a second the processing the Malayalan laterature."

Verses were composed for the occasion by the Malayalam Pandit of the College The function was brought to a close with the singleg of Vanchezsa Mangalam, the National Anthem of Travancore

A telegram was sent to His Highness the Maharajah of Tranancare The message was:—"The kindent subjects of His Gracious Highness reading in the American College, Hadors, in meeting assembled, pray long his and a happy reign. May God bless the Grown Prince."

The Sri Marthanda Exhibition of Pudukhottai - has been in existence from the year 1911 and is an execution of the Sri Sersawall Exhibition of

Pudukkottas which was held for several years before 1911 in this Native State. The present Exhibition has been organised for the encouragement of arts industries, periculture and education both within and onterde the State Exhibits have been invited from far and near from private individuals and public bodies interested in the advancement of Indian Economic and Educational conditions. The scope of the Exhibition which is detailed in section 7 of the prospectus is various and fall. New methods and processes are attempted to be propagated by the delivery of lectures by the holding of demon strations and by the distribution of pamphlets free of cost For the encouragement of the exhibitors & decent provision amounting to over Rs 1 400 has been made for medals and money prizes The required funds for the management of the Fxbibition are met from State grants and the Pudukkotian Durbar in organis ng it as a State concern have evinced a desire to amply encourage arts education industries, and agriculture. It is hoped that the Exhibition would prove useful and successful Intending exhibitors and such as are willing to take part in any other manner in the Exhibition may communicate with the Secretary of the Eshibition for further information

Tanjore District Tevebers' Association—The following are the proceedings of the accent meeting of the Tanjore District Secondary Teachers' Association held in the Town light School, Aumbacknam at 8 rx, son Saturday the 20th August 1913 MR Ry Rao Bahadur S' Appu Sastraa Avergal, 3a, presided The meeting was well steinded,

m is by and Bessure a ppu seeffst Avergal, Ba, presided The meeting was well attended, nearly a hundred teachers from Shiyali Mayavaran, Tirukatupalle, Papanasam, etc, being present, Mr. V. Mahadeva Aivar Ba, L.T. read a name of

Mr. Y Mabadeva Aiyar Ba . LT read a paper on the S S L C Marking System, which was much discussed criticised, and commented upon by Mesers & Srimvara Aiyar and Rajam Airangar of Tanjore Messrs K. Seshu Aiyar, M Venkatarama Aiyar N P Krishpasami Aiyar of Mayayaram, and Mr b herayanasami Alyar of Kumbakonam Discussion chiefly turned on (1) the marking of answers to oral questions (ii) the apportionment of marks between the occasional examinations of the year on the one hand, and the annual examination on the other In regard to oral questioning, there was common agreement respecting its great edu-ca ional value. Though it was at the same time conceded that for marking purposes oral answers were far too elesive, and the marks awarded cannot be very rei sole and accurate, and for that trason the percentage of marks allowed to oral questioning might be reduced so low as not to affect the total number of marks In regard to (a) it was maintained by some that the occasional examinat one were of great value in so far as they engendered and fortered regular habits of study

The Chairman closed the discussion of the meeting by an interesting speech setting forth the excellence of the present system the influence of which is only being partially and is not wholly fell. The school marks discover a far truer estimate of the boys than the public examination, as the examiners in the latter case are very ant to be indifferent. It was a matter for deep regret that the school marks should be ignored, if not disregarded, by the Principals of Colleges in determining the admission of boys, and it behoves an assembly of this size to record its regret and make a representation to the Government in this matter.

Mr. N Venkstachariar, Ea., LT, of the Tirokattupalle High School next read a paper on the "School Time-table." It was too late, and the discussion on it was consequently postponed to the next meeting which, it was announced, will be held at Trrukattupalle.

Besides the light refreshments served them before the meeting commenced, the teachers were provided with a sumptoous dioner that night in the native

High School premises.

Sri Rajah's High School, Tung.-The Sri Rajah's High School, Tuni, was inspected by C. Ranstord, E-q. M & . Inspector of Schools, 1st Circle in the last week of September He expressed his satisfaction at the increase in the strength and the efficiency of the lostitution. The members of the Debating Society attached to the school, celebrated the 2nd Anniversary of the Association on Friday, the 26th ultime, with the Inspector of Schools in the chair. The meeting was well attended by all the elite of the town. The Secretary read the Annual report which showed that some useful work was done during the year. Some humorous recitations and dialogues baying been gone through, Mr. M. Verabhadra Rau, BA, an assistant teacher of the school, addressed the students on the advantages of the Debating Societies and gave them some valuable advice. Some scenes from Shake-speare's "Comedy of Errors" were then enacted. The President in his concluding remarks thanked the members for giving him the pleasure of presiding over the meeting and praised the Rani for her benevolent deeds, especially the maintenance of the High School the Vedic School and the Choultry for the poor. The meeting terminated with the usual vote of thanks. As a part of the programme, the members of the Society put on boards the whole play of "Comedy of Errors" on the night of the lat instant, before an enlightened audience, consisting, in particular, of some European ladies and gentlemen. The performance was thoroughly appreciated by all present and was pronounced to be a splendid success.

Government Grants

The Government sanction the proposed expenditure of Re. 1,500 for the purchase of the books required for the Presidency College from the special Imperial grant of 23 lakhs for education provided in the Civil Budget Estimate for 1918.14.

The Government approve the proposals of the Director of Public Instruction for the distribution Director of Public Instruction for the distribution of a subsidy of Rs 1128-800 to the warious District Brards and Municipal Councils for the construction of elementary school buildings. They slee sanction the payment of a sum of Rs. 3,00 to the Mayavaram Municipality for the formation of a construction of the construction o common garden and museum for the elementary

schools in the municipality.

The Accountant-General is requested to place The accountant-teneral is requested to place the amounts specified as the disposal of the local bodies concerned. Eight lakhs out of the sum of 12 lakhs now sanctioned will be met from the Special Imperial Grant of 23 lakhs for education provided in the Civil Budget Estimate for 1913-14 and the balance of 4 lakbs from the provision of Rs 4,16,567 made under 45-A. Civil Works—in charge of civil officers—Grants for educational

buildings, in the same budget.

The attention of all local bodies concerned is drawn to paragraph 3 of G. O. No. 165, dated 20th February 1913, and G. O. No. 344, dated 21st April,

The Government sanction a grant not exceeding one-half of the actual expenditure nor Rs. 3,900 towards the cost of construction of laboratory and lecture rooms in connection with the London Mission High School, Salem.

The Government approve the proposal of the District Board of Tanjore to extend its High School buildings at Tirdvalur so as to provide for the increase in the number of pupils seeking admission thereto. The plan and estimate amounting to Rs. 16,500 submitted by the President with his letter No. 27.D.B., dated 7.16 April 1910, are, however, inadequate for the purpose. Three fresh plans have since been prepared by the Chief Engineer, C. A. Nos. 240/11, 241/11 and 242/11, and a building according to the design is estimated approximately to cost Rs. 31,000. This amount will be met from the non-recurring portion of the Imperial Grant of 23 lakbs provided in the Civil Budget Estimate for 1913-14

On completion the building will remain the property of Government, but will be lent to the local Board for use in connection with the High

Orders regarding the preparation of detailed plans and estimates and the execution of the work will issue in the Public Works Department.

The Government approve the modifications proposed by the Executive Engineer, Tingerelly division, in the plans and estimates for the out-houses attached to the St John's Girls' High School. Nazareth.

The amount of the grant, sanctioned in G. O. No. 6, Educational, dated 6th January 1910, as modified by G. O. No. 835, Educational, dated 18th a December 1911, will, as a special case, be raised from Rs. 4,483 to Rs. 7,073.

The Government are pleased to sanction a grant not exceeding one half of the actual expenditure nor R: 5920 towards the cost of construction of a hostel in connection with the Hindu High School, Masulipatam, subject to the following conditions—(1) that in carrying out the work the surgestions

of the Chief Engineer are adopted, and
(2) that all the conditions prescribed in the
Grant-in Aid Code have been duly complied with
On the above conditions being fulfilled the

grant will be paid as funds become available

The Government sanction an expenditure not exceeding Bs 11 836 in the aggregate in the correct year for substituting games in the Government Colleges and Secondary Schools and approve the

year for subadizing games in the Government Colleges and Secondary Schools and approve the Director's proposal to meet the expenditure from the special additional grant of Rs 2300 000 stance through by the Government of India Except the buildings at the Teachers' College, the works may be executed departmentally. The

former will be undertaken by the Public Works Department, in which department orders will issua regarding the preparation of plans and estimates Orders regarding the provision of lunds will issue in the binacoust Department

The expenditure referred to in paragraph 3 of the Director's letter will be met from the Public Works Department budget

The Government have sanctioned a grant of Rs. 6 300 towards the construction of a formitory and refectory rooms to be attached to the Roman Catholic Boarding and Training School, Trichinopoly

The Government sanction the continuance of the fixed grant of Rs 5 500 per annum to the Anjuman-1 Modid 1 Abla I slam for the current year on the same conditions as those approved in GO No. 77, Educational, dated 12th February 1903

The Government approve the proposals of the Director of Public Instruction to institute additional scholarships for students in Secondary Schools and Colleges, general, and the proposed allotment in the current year of a sum of R 3,564 for this purpose from the Imperial grant of 23 lakbs provided in the current years budget.

A Pracedistribution in Tasjore—The annual distribution of prarts to the guile of the Minhaud Garler School was held mitthe new hall of Kotesersten Carters, West Minn Street, Taupers, School was held mitthe annual to the Carter School of the Proceedings began with rectual of prayers and religious songs in Mahrattee langs by the girls after which Mr. and the report of the year 1912. The President who distributed the praces gives the process of the prace of t

gris some adrice. It was a matter of pride this segments ago one of the pupils Miss Kamalo Bai showed great skill in playing mount he wins before IIIs Highess the Mabarajah of Hysore who in appreciation of her performance made her valuable presents I no conclusion, the President abovited the pupils to keep themselves abress the times and porsue a kup did not betterhold to distribution of sweets, gars appar, and dinners to the guils brought the proceedings to a close

Coles' Memorial High School —The American Baptist Mission High School named after Dr Coles of America on account of his magnificent benefactions to the school, is doing good work

The prize distribution ceremony of the school took place us the presence of a distinguished audience Many of the leading gentry of the town mere present on the occasion. Before the prizes were distributed, certain recitations were gone through by some of the prize-winence, special mention may be made of V A Venkataraman, the talented som of lir V. A Amentakrishma Alyar, B.A. for some years the Huzer Sherishmader of the local Collectorate, and more a Deputy Collector in one So Deputy Collector in the prize-winence of the VI form of the prize in Bibbe among the students of the VI form of last year.

The Rev W. L. Ferguson, M. A., D.D., who presided at the prize-distribution function, delivered an eloquent speech congratulating the prize winners and giving some wholesome advice to them.

The Government have directed the vernacular translations of selections from speeches of Their Imperial Majesties to be printed and distributed among educational institutions and village officers in the Presidency

The Victoria College Hostel—This hostel has been opened There are short 80 borders at present. The hostel consists of two sections, Brahman and non-Berthinn, but colly Brahmun cooks are employed in both the sections. The students have represent actains close at the arrangements in the hostel. Early in the morning before 7 Octobe a somplist consumed it ready not the following the prepared solid thin and a cop of tee. Then again about 7 in the might comes the supper.

There are 50 rooms in all for the students Only two students are allowed to occupy each room Every student is furnished with a chair and a table with drawers

The Hostel establishment coasists of a warden, a deputy warden, a manager, cooks, etc. The Pruncipal of the College is always to be the Warden Mr P. N. Tunstrubna Menoe, the list Assistant and the History teacher of the High School Department is appointed as the Deputy Warden, who is given an allowance of He. 25 per moneous

Two Prize-distributions - The first Prize-distribution of the Kulitsias Board Bigh School came off in the school premises and the Rev. A F Gardiner, M.A. Principal of the S P. G. College, Trichinopoly, presided on the occasion.

The proceedings opened with the reading of the Annual Report read by the Headmaster which referred to the progress of the institution and the assistance rendered by Mr. R Narayana Iver. I C S . San-Collector of Trichmonoly who saved the school from an impending serious situation by collecting Rs. 15,000 for its building.

The President then distributed prizes to the successful students of the school and afterwards made a speech discussing some aspects of the eduestional problems and the Report presented by the Headmaster.

The ceremony of distributing prizes to the students of the Zamorin's College came off with Mr. S G. Roberts, I C S., District and Sessions Judge. North Malabar, in the chair. The College building and its premises had been tastefully decorated for the occasion with flags, bonting, and evergrooms, and there was a large and distingnished gathering, which included almost all the European ladies and gentlemen of the station. The proceedings commenced with the reading of the report by Mr F. Norton Fagge, BA., the Principal, who stated that the College was making rapid strides towards the path of progress in every respect and that the various activities of the authorities of the institution left nothing to be desired in the matter of providing boarding and other facilities to the students. A hoge hostel at a cost of Re 16,000 was being constructed with all expeditioneness. He was taking a personal interest in the physical development of the students by stimulating them to take an active part in athletic sports, and had meneged, through the co-operation of his students, to get down two silver caps to be presented to the wanning teams in the Badminton and Football games of the various houses into which the whole institution had been divided for the purpose of competition. He had a desire to increase the number of cups, when funds permitted, so that each cup might be kept spart for each game. He also referred to the Meteorological Society formed by him very recently, in addition to the existing Scientific, Historical and Debating Societies The strength of the institution continued to be on the increase, and the results obtained in the last public examinations were very satisfactory when compared with those of other institutions in the district.

CALCUTTA.

Calcutta Chemical Club -The annual meeting

of the Calcutta Chemical Club was held at the Chemical Lecture Theatre, Presidency College, Dr. Aghor Nath Chatterji presiding. Dr. P. C. Roy gelivered an address on 'The Progress of Chemistry

in Bengel in 1912 13-the proposed University College of Science. He said that the year under raview had been an eventful one for more reasons than one. There had been a growing and steady increase in the number of advanced students who were anxions to take part in original investigations. Since lest year, some 60 papers had been communicated to the Chemical Societies of London and New York, the Asiatic Society of Bengal, the Zeitschrift für Anorganische Chemie, Zeitschrift für Blectroche-mie and Zeitschrift fur Physikalische Chemie. It was a matter for sincere congratulation that the contributions of several punils in the Chemical Laboratory of the Presidency College were meeting with welcome and bospitable reception in the columns we come and cospitable reception in the cotumns of the above journals. Those who, after taking the highest degree of the University in Science, had spent two or three years in original investigation at the Labovatory of the Presidency College, had never had any serious cause of complaint even from the needly and the complaint even from the needly of the ne the wordly point of view. The Bengal Chemical and Pharmaceutical Works had already absorbed as and roarmaceutent Works had already absorbed as many as five chemists—all of them graduates in science and alomni of the Presidency College. In due time many more chemical industries would spring up and find employment for scores of chemists. The speaker in conclusion referred to the researches carried out by students for the M. So degree.

Konsteen High School.-The distribution of prizes of the Koostrea High School took place in the pre mises of the school The popular District Magistrate S. C. Mukerjee, Esq. presided After songs and recutations the annual report was read out and the prizes including some special prizes awarded by the Secretary and other local gentlemen, were given away by the President. The Additional given away by the President. The Auditous-laspector of Schools, the Assistant Police Superia-tendent, almost all the local gentlemen and Rai Kunjalal Savial Bahadur of Kumerkhali wer present. The President in addressing the meeting noticed from the report that the school was gradually improving and the result of the last Mshomedan hostel building attached to the achool and the new Hindu Hostel building for which the Government grant of Rs 16,000 has been obtained and which is nearing its completion show how the Secretary, the President and the local public take interest for the school.

We are glad to learn that it is proposed to hold a Beience Congress to the rooms of the Asiatin Society of Bengal during the week ending January 1710, 1914 The following draft rules have been suggested:-That the Congress should as far as possible be purely scientific. That if sufficient approach be accorded, the Congress be divided into sections dealing with various branches of science. That there be a subscription of Rs. 5.

It is announced that Dr J G Jennings, the Principal of the local Muir College, is to succeed Mr Hallward as Director of Public Instruction in Bebar and Orissa

Post-graduate teaching -The elaborate and exhaustive statement on Post graduate teaching. with which the Vice Chancellor prefaced the proreedings of the recent Benate meeting has been very opportune no doubt in view of the strenuous times the Calcutta University is just now passing through Not only have thunderbolts after thunderbolts been lorged and burled on its deroted head by the apperior gods from their Olympic leights but the emailer fry also have chosen it is exact moment for throwing mud at it -beautifully illustrating the Bengalee adage that while the elephant is stuck in a quagmire even the bate kick at him. The s ate ment by Sir Ashutosh discloses that the Calcutta University is carrying out its Statute imposed duty of expanding itself from a merely examining into a teaching body in no niggardly or recalcitrant spirit This ought to satisfy all reasonable men interested in its welfare But as to whether it will satisfy the bats referred to above that is quite another thing After all the Vice Chancellor a statement, in cotte of all that can be said in its favour, labours under one supreme disqualification For, does it not show that the various Professorships Assistant Professorahips Read-rahips and L-ctureships are bestowed on the consideration of merit alone, regardless of case, creed or colour? Does it not also show that there is a preponderance of the Indian element in the list estalogued by the Vice-Chancellor -than which nothing more imperiment can be conceived on the part of an Indian Univer sity ?-Amrila Baszar Latrika.

BOMBAY. New Architectural Scholarships -The Government of India have had under toeir consideration the recommendation of the Conference of Oriental ists held at Simia in July, 1911 that opportunity should be afforded to Indian students to accompany Conservators in order to learn the principles and practice of architecture. They have decided in practice of architecture they have decided in communication with those Local Governments who baye Consulting Architects, to award three scholar ships of the value of R. 100 a month to Indians, in order to facilities this training. As there are greater facilities for architectural education and for a combination of a thorough course of theoretical instruction with practical training in Bumbay than instruction with precises training in Danosy tobs elsewhere in India, they have decided that these scholars should be trained in the Office of the Cou-sulting Architect to the Government of Bombay

Dr D D Gune Ph D, a former student of the Poons Eurgusson College who has after three years' stay at Leipz g. just come back, says in the Fergusson College Magazine that Germany affords exceptional facilities to Indian students Dr Gune herefor sums up the advantages thus:-

(1) You get as good a scientific education bers as - I not better then- n any other advanced European country (2) Pducation is comperatively cheaper here then in other countries (3) You have hetter chances of acquiring practical knowledge in Germany than in any other country There are at least no prejudices and misnuderstandings ; because there have been very few Indian students here, and those few have in my opinion created a good impression on G rman educationists and scientists (4) There are not racial or any other reasons that would prevent Indiana being employed for practica in factories (5) I swing is cheaper here than in England and also, I believe, France

ALLATIABAD

Primary Education Committee .- The report of the Primary Education Committee has been published together with the reports of the Female Fduca tion Sab Committee and the Committee on Educational Hygiene and a number of other papers, all of which cover 137 pages of the last number of the Government Gazette The report of Mr Piggott's Committee covers 35 pages and to it are attached a 'historical note' by the Hon Dr Sundar Lul a note by Mr Streatfeld on the organization of primary schools, one by Mr Fremantle on rural edication a note by the Hon Bibu Ganga Peasad Verms on the Ispgusge question and a minute of dissent by the Hon Monabl Arghar Alı Khan and the Bala of Pirpur The report of the Female Education Sub Committee covers nine pages and is signed Mr Piggott Miss Stuart, Mr S P Sanyal and Miss V Yaday Separate notes are appended by Mr Pigro & Mr Motilal Nehru and Babu Jyota Swarup Foot pages are covered by the report of the Sub Committee for School Bu ldings of the Sub committee for exhool Butdings of which Mr Freematile was the Chairman The Committee on Educational Hygiene was composed of Leet Col Yanng I M S Major Graham Captain Dam Mr H Benuter, and Rai Gold Pressed They make a large number of recommend ations, the most important, being the periodical inspection of the senitary condition of all schools and the periodical medical inspection of scholars by qualified doctors.

MYSORE

Scholarships :-- The Government of Mysore bave desided to offer a scholarship for training a graduate in actuarish and allied work. The selected candidate will be required to pass the examinations prescribed by the Institute of Actuaries, London for eurolment as a 'Fillow' of the Institute and also to undergo, if required, a course of practical training in actuarial and allied work. The total period of study and training will be about 4 years and a part of this period will have to be spent in England For the period of training in India the scholarship will be Rs. 100 per mensem, and for the period in England £200 per aunum, and second class Railway fares and ocean passage will be given If the scholar acquite himself creditable, he will be taken into the service of the Mysore Government.

Maharant Girls' School .- The Improvement Trust Board has granted a good site free of cost for the building of the Maharani Girls' School. This argurs well for the future and should encourage the active Secretary Mrs. Bangamma while it should, at the same time, make her fully realise her great responsibilities in the matter. I hope other members of the Mission will rise equal to the occasion in making this a success.

Marimaliappa's High School:-The Marimaliappa's High School is use of the largest schools in the Province The atrength of the school comes to over 600. The establishment charges including contingencies, etc. amounted last year to Re 13,172 There are 60 Lingayat students in the school. The Lingayat students studying in different colleges and echocis in and outside the Province are given scholarships The accommodation of the school having been insufficient, a second and a third storey were erected at a cost of over Rs 10,000. The building is considered to be one of the best buildings in the city. The reteran Headmaster Mr Venkatakrishnassa is taking a very great interest in promoting the cause of education in the school

COCHIN.

A Prize-d'stribution -- The silver jubiles of the Ranta Croz High School, an institution started in 1883 by the Padroado Mission in Cochin, was celebrated recently in a manner befluting the occasion. The first item of the celebration was the distribution of prizes to the pupils under the distinguished presidency of His Lordship the Right Bev. the Bishop of Cochin The school building and the premises were profusely decorated, some 400 invitations were issued and before the appointed hour the Hall was packed with people. The Bishon noar the Main was packed with people. The bishop accompanied by the Rev. Father Vincent Mendez De Souza, his Secretary, arrived ponetually at 8 and he was received by the Manager, Very Rev. Father P. Antines, S J., and the Headmater, Rev. Father William Arkwright, S J., and conducted to a special seat in the Hall. The proceedings of the evening began with a song "What I live for" by the choir of St. Cecilia which was rendered in excellent atvis and was much appreciated. Rev. Father Arkwright. the Headmaster, read the report of the Manager,

The Report gave a short history of the school. referred to the three past Managers and six Head-

masters in appreciation terms and said that from 200 pupils in the first year the number had risen to 700 in the present year. After dwelling on the the school, the report that it was proposed not to neglect the teaching of Malaysiam and to drop the teaching of Latin The school was not a European School and Malavalam would be made an obligatory study. A good account of the school cadets was given and thanks were expressed for Government

After the reading of the report and another song, the Bishon gave away the priges to the winners where names were announced by the Headmaster Mr. Glyn Barlow, M.A., Principal of the Ernskulum College, who presided at the Prize-distribution in 1912, delivered an extempore speech In which he complimented the school authorities on the success of the institution and the nights' entertainment and the successful inbiles celebration.

TRAVANCORE.

The College Day .- The past and present abadents of H. H The Mahareje's College celebrated their College Day on the 7th instant, at the public meeting held under the presidency of Mr A R. Reje Reje Varms, MA. Professor of Sanskrit and Saperia-tendent of Dravidian languages. Among others present were the Dewan and the Chief Justice. Reveral speeches were made. The fellowing extract is made from the speech of :-- Mr. M Raja Raja Varms, x a . Under Secretary to Government-

I highly appreciate the honour which the College Day Committee has conferred on me to day and thank them sincerely for the same I was present at the first preliminary meeting which Dr. Muchell called together to consider the question of institution this annual function with the express object of affording an opportunity to the past and present

when I stand in this time-honoured half, my memory rous back for ever quarter of a century, when the late Reverend Dr. Harvey controlled not only this College and the High School attached thereto, but all the English Schools in the State, with that strict discipline and paternal affection which were all his own. Older boys than myself would also remember that tall, gigantic Scotchman Mr. John Ross, whom, as a boy, in the Special School at Mavellkars, I had learned to look upon with a feeling of terror. A shake of their flowing beard had more significance to se than a hundred Codes and a thousand Standing Orders Though in body, these veterans have left us, their spirit yes lives in us and guides us each in our walk of life. It is indeed a consolation to think that some at least of our old preceptors are living, each of whom, in spite of the change of times and environments, had laboured hard for our dear College With his ever-smiling face and pleasant conversations, Mr H. N.

Read, unconsciously took us out from the groove

of the old method of teaching and led the way for the introduction of the modern practical system His advent really marks the commencement of the modernisation of our College To him we owe the development of our out door games. He talked and played with his students, cracked tokes with them. was ever a happy companion to them He tanget not by formal lectures delivered the hour nor by the dictation of elaborate notes, but by pleasant talks in and out of the class. In a period when the mants for cram and written examinations was ronning high, Mr Read boldly, with that liberal spirit characteristic of an English University man, introduced a change of method quite against the inste of the then educationists, but which it is the endeavour of every one now to follow Another Scotchman Dr A C Mitchell, worked up a complete revolution in our educational eratem. His influence was not confined to this College or this State was felt all over the Presidency His clear intellect, thorough mastery of details and prodigious energy, made him one of the greatest of educationists

INDIA (GENERAL).

Indian students proceeding to Europe—It has the come to the notice of the Government of India that some misapprehension exists with regard to the intention of the orders governing the grand of certificates of identity to Indian students and others, contained in the resolutions of the Indian Discourage of the Indian Disc

The orders contained in those resolutions were intended to spoly only to Indiance of some status proceeding to Europe the United States of America, or Jason for the purposes of study, for of emigrating to those or other countries in search of mannal employment even though sedicently will to do to be able to pay their own faver. The eccouragement or saintained which they be in the second of the study of the second of the study of the saint of the study of the study of the study of the saint of the study of the study of the saint of the study of the study of the saint of t

they are destined
3 Local Governments and Administrations are
requested to give wide publicity to the tenor of
these orders.

Literary Notes

Forthcoming Books of the University Tatorial

A new and solvered edition of the Authology of Popular Fers will be published during the suturn. This book was originally issued with a view one-ring the requirements of the Board of Education's Faminisations for the Teachers' Certificates and of Faminisations for the Teachers' Certificates and of Faminisations for the Teachers' Certificates and the Authority of the Teachers' Certificates and the Authority of the Teachers' Certificates and the Teachers' and the Authority of the Teachers' Certificates and the Teachers' Certificates and the Teachers' Certificates and the Teachers' Certificates and the Earth Ce

The University Totorial Frees bones to begin a seried of new and modern works on Economies and kindred subjects by the publication in the suring of the subject of the whole subject by the publication in the suring of the whole subject, and will lay special stress on the developments of the nutsets who centre fractions of the whole subject, and will lay special stress on the developments of the nutsets who centre. An additional subject is supported by the subject of t

A book on Chemical Calendations is now in preparation. The object of this volution is to give a simple account of the typical calculations required in nonganic chemistry put to the standard of intermediate and final degree examinations with cludes the atomic theory, chemical equivalents, molecular and atomic weights quantitative analysis, and the elements of physical chemistry

Means Macmillan & Co announce the following forthcoming books -

The Works of Tennyson Author's amonisted Pidition Edited with Memori by Hallam, Lord Tennyson. With Pertrait Extra crown 8vo. 10x of the Tennyson. With Pertrait Extra crown 8vo. 10x of the Tennyson of England Irom the Accessible Prof. Charles Hardway Prib xa. With 90x librariation, including 44 in colour, and Photogravure Portrait. Uniform with the Illustration Fedical Conference of the Prof. of the Prof.

Messrs Longmars Green & Co 's anconcement; The Making of the Australian Commonwealth (1889 1900). A Stage in the Growth of the Empire, by H R Wise, Problems of Empire Papers and Addresses by Yusconn Hythe, DC . How Follow A History of the Grays of South African Colonsation and of its Davelopment towards, the Data from the Earlest Times to 1857, by G E. COT, MA. training in actuarial and allied work. The total period of study and training will be about 4 years and a part of this period will have to be spent in Dogland For the period of training in India the acholarship will be Rs. 100 per measure, and for the period in England £200 per annum, and second class Rulway fares and ocean passage will be given If the scholar acquire himself creditably, he will be taken into the service of the Mysore Government.

Maharani Girls' School.—The Improvement Trust Board has granted a good site free of cost for the building of the Maharani Girls' School. This acgurs well for the future and should encourage the active Secretary Mrs. Rangamma while it should, at the same time, make her fully realise her great responsibilities in the matter. I hope other members of the Mission will rise squal to the occasion in making this a success.

Marimaliappa's High School:-The Mari-mallappa's High School is one of the largest schools in the Province. The strength of the school comes to over 600. The establishment charges including contingencies, etc., amounted last year to Re 13,172. There are 60 Lingayat students in the school. The Lingayat students studying in different colleges and schools in and cutside the Province are given scholarships The accommodation of the school having been insufficient, a second and a third storey were erected at a cost of over Rs 10,000. The building is considered to be one of the best buildings in the city. The veteran Headmaster Mr Venkatakrishnayya is taking a very great interest in promoting the cause of education in the school

COCHIN.

A Prize-d'stribution -The silver inbiles of the Santa Croz High School, an inatitution started in 1883 by the Padroado Massion in Cochin, was celebrated recently in a manner befitting the occasion. The first item of the celebration was the distribution of prizes to the pupils under the distinguished presidency of His Lordship the Right Rev. the Bishop of Cochin The school building and the premises were profusely decorated, some 400 invitations were issued and before the appointed bour the Hall was packed with people. The Bishop accompanied by the Rev. Father Vincent Mendez Section and the results of the results of the results of the section, arrived point cally at 8 and he was received by the Manager, Very Rev. Father P. Antoner, S. J., and the Headmaster, Rev. Father William Arkwright, S. J., and conducted to a special saak in the Hall. The proceedings of the evening began with a song " What I live for" by the choir of St. Cecilia which was rendered in excellent style and was much appreciated. Rev. Father Arkwright, the Headmaster, read the report of the Manager.

The Report gave a short history of the school referred to the three past Managers and six Head-

masters in appreciative terms and said that from 200 pupils in the first year the unipher had risen to 700 in the present year. After dwelling on the the school, the report that it was proposed not to neglect the teaching of Malayslam and to drop the teaching of Latin. The school was not a European School and Malayalam would be made an obligatory study. A good account of the school cadets was given and thanks were expressed for Government grante

After the reading of the report and another song, the Bishop gave away the prizes to the winners whose names were announced by the Headmaster Mr. Glyn Barlow, MA, Principal of the Ernskulam College, who presided at the Prizedistribution in 1912, delivered an extempore speech in which he complimented the school authorities on the success of the institution and the nights' entertainment and the successful inhiles celebration

TRAVANCORE.

The College Day .- The past and present students of II. H The Maharaja's College celebrated their College Day on the 7th instant, at the public meeting held under the presidency of Mr. A R. Reja Reja Varue, M.A. Professor of Sanskrit and Superintendent of Dravidian languages. Among others present were the Dewan and the Chief Justice. Several spacehes were made. The fellowing extract is made from the speech of :- Mr. M Raja Raja Varms, M A , Under Secretary to Government-

I highly appreciate the honour which the College Day Committee has conferred on me to day and thank them sincerely for the same I was present at the first preliminary meeting which Dr. Mitchell called together to consider the question of instituting affording an opportunity to the past and present

storting an opportunity to the pass and students to know each other. When I stand in this iter-honoured hall, my memory rous back for over quarter of a century, when the late Reverend Dr. Harvay controlled not only this College and the High School site check thereto, but all the English Schools in the State. with that strict discipline and paterns! affection which were all his own. Older boys than myself would also remember that tall, gigantic Scotchman. Mr. John Ross, whom, as a boy, in the Special School at Mavellkara, I had learned to look upon with a feeling of terror. A shake of their flowing beard had more significance to as than a hundred Codes and a thousand Standing Orders , Though in body, these veterans have left us, their spirit yet

lives in us and guides us each in our walk of life. It is indeed a consolation to think that some at least of our old preceptors are living, each of whom, in spite of the change of times and environments, had laboured hard for our dear College. With his ever amiling face and pleasant conversations, Mr H. N. Read, unconsciously took us out from the groove Messrs Kegan Paul, Trench, Trübner and Co Ltd., bare in preparation a new edition of 'Fod a Annals of Bajasthan' This famous Indian classic has been long out of print, and is dedicated by permission to His Highness Maharajah Rana of Jahalwar

SCHOOL AND COLLEGE SPORTING NEWS

Annual Sports in Kumbakonam

The Inter Collegate Athletes Sports for this yest came off at the specious playground in the Government College premises beer and all the serious education of the serious control of the serious control of the serious control of the serious committee while a good number of the Professors and College was the President to the Eircentre Committee while a good number of the Professors and the good of the sports The programme was varied and interesting crough to keep up the high exchanges of the pipter and the spectators the professors and the spectators of the professors of the profe

Ernakulam Inter School Sports

As the appended has will show, the Sports were as the na ever, for the D M S Trichur wasted some of the triphtee permanently, and the College boys were 'not having say. The Raphs Shaked was won and will find a local habitation and an honoured mans in Tricher, but the L'indepens third went to remain bered. The chittier sun or walked off with the Daviet Rap of War Oug.

"Mr. Davies took the place of Mr. Barlow for the atternoon as Mr. Barlow was unwestedbyl absent it fell to him to thank H II the Rays for greenously pressing and Mr. Davies took the for the encouragement, he had given to physical education by the institution of these general education by the institution of these general education by the institution of these general education by the institution of these greens for except ladd heart half, such may form the successful to the same from the species of address when Mr. Davies plots of the sports as Mr. Banety late to be asserted Mr. Banety that, it for no other thing for this at least be well a large by the recent ladd.

Mr Davey of Alleppy took command of the army of judges and made progress rapid Mr S K.

Subramants lyer of the College was again, as in previous years, a most efficient and successful becretary of the Inter School Sports Committee

Hest Coast Badwaten Taumanest
Thus Tournamest open to all the team of the
Colleges Schools and recognised prysate clobs of
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Terascore and Combators inclusively, will commence on the 18th December 1918. The entrance
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18th Norember, 1918 The unimng teams will be
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Colleges of the Colleges of the Colleges of the Colleges
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West Coast Foot-Ball Tournament

The Toursament for the "Hao Sabbs N Valdyamsha Ayar Gop will commence on 18th December, 1913 This is open to all teams of the recognized School Sabbs of Colleges on the West Coast (South Caustra Malabert Lochus Travanores and Forest Caustra Malabert Lochus Travanores and per team All applications together with the enirance fees must be sent to D N Natessa Secretary West Coast Foot Bail Tournament Government School of Commerce Calcut, on or before the 18th presented with the Cup which will be a robating one and the players of that team each with a silver medal

Mysore Interested Sports

The following are some of the results of games played in conception with the Desart Tournaments—On the 10th mercug the Maharaya College, (2 sum) and Marmallappa High School (4 sum) he game resthing in seccess for the former by played the Y M E Union, the game resthing in a draw neither side having scored On the 11th morning the blay was between the Maharaya College and H. H. A. Y. Ms School the game being drawn match between the Maharaya College and H. H. A. Y. Ms School the game being drawn match between the Greecea's and the Y M E Union was resound, the former scoring by 2 goals to all the game of the 12th morning was between teams representing the Maharaya College (4 inam) and the score of the 12th morning was between teams representing the Maharaya College (4 inam) the match by F goals to nill.

The Bangalore Inter School Tournament.

It was believed that the Cottonian team had a really fair chance of beating St Joseph a College in the Inter School Tournament for the Unicket Trophs

It was a particularly hot day as play opened on the Central College ground and the College went in to bat first. When their third wicket fell the prospects of the side were not bright, for Sexton.

King's College, Cambridge; Professor in Rhodes University College, Grabamstown, South Africa. In Four Volumes. Vol II. With 33 Illustrations: The Life of Welliam Pist, Earl of Chatham, by Basil Williams With Portraits and Maps. 2 Vols.; Essays on Men and Matters, by Wilfrid Ward

Amongst Messre Macmillan's List of New Books to be published in Ostober 1913 are :-

The Life of Edward Bulwer, First Lord Lytton, by Sir Edward Cook; Songs from Books, by Radyard Kipling; Just So Stories, by Rudyard Kipling; The Fairy Book

Stories, by Warwick Goble; Essays Political and Literary, by the Earl of Cromer, o M., G C B ; The Literary, by the Earl of Cromer, O.M., a C D; The Works of Tempson Author's amontate Edition. Edited with Memoir by Hallam, Lord Tennyson; The Orescent Moon. Child Forms, by Rabidranath Tagore Translated by the Author from the Original Bengali; The Gardener. Poems by Babidranath Tagore. Translated by the Author from the Original Bengali; Taglanath: The Redission of Life. A Bengali, Samana: and Resission of Dic. A Saries of Lectures by Rabindransth Tagore; Jana Assten, by F W. Cornish, Vice-Provost of Eton College; A Changed Man, The Walting Rupper, and other Tales, concluding with the Romantic Adventures of a Mikmaid, by Thomas Romantic Advantures of a Mikmaid, by Thomas Hardy, Estatistics, by the lats Bir Robert Giffen, K.C.B., Ed. S. Zulche, with an Introduction, by K.C.B., Ed. S. Zulche, with an Introduction, by Unday Yole, M. A. British Badgest 18578 to 1912-13, by Bernard Mallet, C.B.; A Tresties on Chemistry, by Bernard Mallet, C.B.; A Tresties on Chemistry, the Right Hon. Sir. H. E. Horcoe, F.R.S. and O Kondoniumer, F.R.S. Vol. II. The Markat, New Adultion complexity reviewed by the Right Hiso. Sir H. E Roscoe, F.R.S. and others ; A Dictionary of Classical Names for English Readers, by W. T.

Jeffcott, B.A. Important new books of Messra, Longmans,

Green & Co :--Trend & ColLatermediate Physics, by W. Watson, FRS.,
IRCS, DEC, Assistant Professor of Physics at the
Royal College of Science, London, Se. net; Electricity and Magnesism, by Sydory G. Starling, Rec.,
ARCSC. Head of the Physical Department in the West Hem Municipal Technical Institute, 7s 6d .net ; Modern Inorganic Chemistry, by J. W. Mellor, D. S., Author of "Higher Mathematics for Students of Chemistry and Physics" and "Chemical Statics and Dynamics" 7e 6d: A History of Europe, by and Dynamics. "A bat A History of Lurope, by Arthur J. Grann, M. A. King's College, Cambridge, Professor of History at the University of Londay, Author of "Outlines of Eropean History." With Maps, Plane and Hustrations Lurge crown Sco. 7s. 63 nat; Peacitical Geometry and Graphics by David Allan Low, Professor of Engineering, East London Technical College 7s. 6d. net.

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the territorial and other changes introduced scon after the Dorbar, and those who know Sir Courtenay's style of writing hardly require to be told that the account is thoroughly up-to-date and written in the crisp and pointed manner so characteristic of him. The booklet contains several useful appendices, and among them the correspondonce preceding the Durbar, the announcements made at the Durbar, the Government of India Act, 1912, and the revised Regulations for the constitualready on their shelves "The Government of India will find this publication both pecessary and pecful.

Bobn's Popular Library 1s net G. Bell & Sons. The first list of the new reissue is in itself a testimony to the wide range covered by the famous Libraries, comprising as it does some of the finest examples of our own classic literature-novels, belles-letters, satire, philosophy-masterpieces of the literature of history and travel, and translations from the great classics of Greece, Rome, Germany, France, and Spain-surely a fine nucleus for a discriminating reader's library, as low in price as it is excellent in form.

Messrs. Jack announce The New Encycloradis. The work will be entirely original throughout, and owing to the way in which the matter is condensed and the illustrations treated the 1,600 pages will contain as much information as is usually got into six large volumes. All the entries are thoroughly up to the latest date, and science is a strong feature of the work. Struck by the inconvenience to the reader of having a dozen to twenty volumes to choose from, and the consequent confusion and cuoses from, and the consequent continuous and irritation, the publishers have put the whole four one good-sized volume. This new departure in a full sized Encyclopadis will be welcomed by many a worned reader. A large cittion has been printed and the work will be issued at a popular price.

A work of great interest to sportsmen is announ-A work or great interest to sportsmen is automi-ced by Mesers. Methon. It is "The Book of the Ball" by Mr. A. E. Crawley, giving an account of what the ball -doce, and why, in connection with cricket, football, golf, baseball, tennis, etc.

A collection of reflective and comforting verses by L. E Smith entitled "Odes and other Poems will shortly be published by Mesers Methuen.

South Australia. The work has already been dramatized and staged with success in Australia, where the authorities have signified their appreciation of it.

....

[&]quot;Government of India "-Sir Courtenay Ribert, x c a I., has issued a second supplementary chapter to his well-known volume, "Government of India," under the name of "The Coronation Durbar and its Consequences" (Clarendon Press, Oxford, 2s. 6d. pet). The chapter contains a succinct account of

Mesars Kegan Paul, Trench, Trübner and Co, Ltd., have in preparation a new edition of 'Pod's Annals of Rajasham' 'This famous Indian Classio has been long out of print, and is dedicated by permission to His Highness Maharajah Rana of Jahlawar

SCHOOL AND COLLEGE SPORTING NEWS

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It was a particularly bot day as play opened on the Central College ground and the College went in to bat first. When their third wicket fell the prospects of the side were not bright, for S

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Simon and Rule succumbed quite early and Simon was felt to be a distinct loss. Maybury, however, stayed in from third wicket to walk out with his bat for a finely compiled total of 78 and Watts who went in eighth man staved with him till Ferdinands found his wicket for a substantial 50. He was then joined by McCosh who began to hit about quite merrily and with Maybury generally punished the bowling The College knocked up the spleudid score of 219, before lunch.

On resuming play at 2 r. w., the Cottonians began badly, only Ferdinands (16) and Johnson 12, making anything of a stand. In the result they could only make 73 runs and were put in again by their opponents and this time did much better by making 116 runs. Johnson (24) and Danbill (22) being the principal scores. The College thus won by an innings and 30 rous and have now to play the Baldwin High School. The Cottonian School had rather bad luck owing to Reuben being excluded from the team just overnight, owing to the age clause of the rules, and Dr. Doberty was far from

St. Joseph's College Sports

Perfect weather favoured the annual sports of St. Joseph's College held on the College grounds in the presence of large crowds of spectators, both the College Square and the balconies of the buildings being filled with friends. Mr. A. R. Cox, I.C.S., Mr. R. A. Gray and Mr W. H. Murphy, were among the judges and Mrs. Cox gave away the prizes The champion of the day was found in M. da Silva, who was ron pretty close by H. Tremenbere. J Sexton annexed the similar honor as among the Junior Competitors. The events

which were most loudly applauded during the afternoon were the figure-running, ring drill and the tug-of-war—and the prize-giving, of course. The Rev. Fr. St. Germain is to be heartily compli-mented on a most successful programme and upon its very enthusiastic reception.

Inter-School Sports at Salem. The Salem Field Games Association at its meeting beld in August last under the presidency Mr J. T. Gillespie, LOS, resolved to ron the Annual Sports on the 26th and 27th ultime and on following days, the large compound of the London Mission High School presented scenes of the greatest enthusiasm. In response to invitations sent round by Mesers. W H H Chatterton and Rao Sabib K.D. Subramania Lyer there was a distinguished gathering of ladies and gentlemen to witness the various events. There were in all 47 items and the organisers very wisely ruled that there be four classes of competitors as follows.—Class I open to all; Class II open to all follows —Ulass I open to slift Class I open of the follows —Ulass I open to slift Class I open to all under I open and Class IV open to all under I opens. All open was permitted to take more than two prizes. The unavoidable absence of Mn. 27. Collespin, 10.88. Mr. E. Pakenhem Welsh, 1.08, his successful duly as host The invited guests were treated to tea and light refresbments, and the arrangements. made on the two days reflected credit on Rao Sahib K. D. Subramania lyer who was mainly responsible for the same. The leading citizens from the town and the mofussil made a ready response and presented the Committee with gold medals and silver cupeand the Committee's thanks are in a large measure due to the various donors for such encouragement and belo.

Thirtieth Year of Publication. THE JOURNAL OF

INDIAN ART AND INDUSTRY.

Published quarterly. Size 15 by 11 inches. Annual subscription (payable in advance) Ten shillings-post fres. Single numbers 2/6-post free. Binding, per volume 5/-

No. 123, recently issued, contains beautifully illustrated articles on :-"Some Indian brooches and their resemblance to European finds and forms," by Mrs. J. H. Rivett-Carnac.

"The Elephant in State Ceremonies," by Col. T. H. Hendley, C.I.E.

Volume XV, containing Nos. 117, 119, 120 and 121, forms a splendid record of the exhibits in the Indian Court, Festival of Empire Exhibition at the Crystal Palace, 1911.

A handsome new binding case has been prepared for Volume XV and subsequent volumes.

Many back numbers are still available at the reduced price of 1/- each. Descriptive list free from the Publishers :-

W. GRIGGS & SONS, LTD. HANOVER STREET, PECKHAM, LONDON, ENGLAND.

The Educational Review

Principal E H Griffiths presided over this section and his address section?

The Educational Section describes be read circ describes to be read circ fully by all people who are interested in influencing influencing.

the shaping of educational policy Especially those that clamour for the introduction of compulsors Primary edu cation in India will do well to read Principal Griffiths report of his carefully made enquiries of the results of compulsory Primary educa tion in England for the past forty years. He finds that a large majority of manual labourers are not rendered any more efficient in the discharge of their tasks by further instruction of an academic character [than the acquisition of the three R s] He points out that the assumption that all children are fitted to prof t by more than the rudiments of academic education is the cause of much mischief

Democracy in its control of education counts noses rather than brains Among others Principal Griffiths gathered the views of teachers who also admit that Primary educa tion has been a failure though they attribute They plead in extenua it to other causes tion that the large size of the classes is in itself a barrier to real efficiency, and that the teacher is so feitered by regulations so bothered by the fads of individual Inspectors Principal Griffiths then propounded his own method for the remedy of the defects of Primary education I consider that we are proceeding in the wrong order in that we give preater prominence to the acquisition of knowledge than to the development of char There is truth in Emerson's dictum that the best education is that which remains when everything learnt at school is forgotten We appear to think that the learning of the

three R. s is education. We must remember that in imparting these we are only supplying the child with the means of education, and that even when he has acquired them the mere addition of further knowledge is again not education. If we impart the desire for knowledge and train the necessary mental at petite, the knowledge which will come by the bucketful in after life will be absorbed Recently in India we have and utilized had also much talk of placing moral education in the forefront of school work, but the means proposed for attaining this was ridiculously inept. Teach one more booka text book of morality. It is a ridiculously childish belief that morality can be taught like the multiplication table Realmoraleducation-at least that part of it that can be aimed at in schools as I rincipal Griffiths has pointed out is the introduction into all schools spirit of our much abused public schools, 10. a sense of responsibility -and as a necessary sequence a sense of discipline-a standard of truthfulness and consideration The War wickshire County Council has introduced the prefect system into its Flementary Schools with admirable results Sir Robert Baden-Powell's Boy Scout movement is at the root of this reform that places the training in right conduct over and above the imparting of right knowledge But so long as we attach importance to the results examination than to the judgment of the teacher our system stands self condemned for it places knowledge above character

Principal Griffiths then dealt with the important question of the

The freedom of the Schools and the Universities institutions Evolutionary

progress is only possible where variety exists,

and variety is necessarily abhorrent to the official mind. Freedom from local authorities to adopt their own methods, to experiment -often to fail-is the system, if system it might be called, by which alone advance is possible. The curse of uniformity, perhaps the greatest curse of all, is a necessary consequence of over-centralized control." Further on he said, "the freedom of the Universities is one of the highest assets of this country, and it is to the advantage of the community as a whole that each University should be left unfettered to develop its energies, promote research, and advance learning in the manner best suited to its environment." How different it is in India. This "highest asset" of English University, freedom to devise courses of studies and follow them is denied to the Indian Universities. An Under-Secretary in the Government Secretariat can by a stroke of his divinely-inspired pen upset the resolutions of a body of educational experts who have given the best portion of their lives to educational work; for no resolution of the Senate is worth the paper on which it is written, unless the Government sanctions it. And what is worse, any Fellow, even one who has never been inside a college since he took his degree and who knows absolutely nothing about the educational activities of civilized world, has merely to start a fad ; and. even though but a handful of Fellows follow his lead, and the bulk of the Senate is against him, he straightway rushes to Government. and invokes the strong arm of Government to brush aside the result of the accumulated experience of all the eminent educationists of the land. He has only to make sufficient noise and some eminent Government official begins telling people, " It would be politic to meet this agitator half-way." Higher education should be saved from the blighting Influence of platform politics and the power the Government has over the University forcibly drives University affairs into the arms of the demaogue and the stump orator and the party politician.

After the presidential speech, numerous urgent educational ques-

Other questions considered at the first were debated on. We have barely space for more than enumerating them.

The educational value of museums was discussed in conjunction with the Anthropological Section. The next question was the function of the Modern University. A committee teport on the influence of school-books was next considered. This was followed by a paper by the ever-active . Rev. J. Knowles In which he pointed that "in the various Indian scripts there are at least 20,000 symbols to represent 53 elementary sounds" and this monstrosity is kept up by Indian sentiment, which very often is destructive of sound common sense. The address of Dr. Kimmins on "a plea for research in education" deplored the atter lack of professional knowledge among most teachers, such as is possessed by the lawyer of the doctor. The next paper was on the teaching of spelling with this we have no sympathy, for we hold that the absurd English spelling has best be given a decent burial as soon as possible; it is a wonder that England is the only European country that sticks to a ridiculous spelling The other papers dealt with the use of suggest tion in education, registration of schools and the value of handwork.

The State and outside control, even though the University.

The State and outside control, even though the University.

the authority that attempts to control it be the State that contributes to

the funds of the University was passionately pleaded for by Principal Griffiths , and the recent debate and resolution ament the same subject in the Madras Senate at its last meeting is eloquent testimony that out here in Madras, we want another Principal Griffiths to teach us our duty This is not a case of the right of the man who pays the piper to order the tune, for the Government is as a Government eminently unfit to inter fere in any University malter, for the reason we have already put forward. The Secate is a body of men who have to concern them solves with science, with learning, with the advancement of knowledge, but the prime function of Government as to balance the demands of various parties and to do what is expedient, what is politic. We do not want policy in the temple of learning We do not want the University to be swayed by party considerations, by the clamant cries of sections of people The Government cannot help being the target of passionate decuncia tion and equally passionate defence; its proper function is to work on the plane of emotion; but the University ought to be kept out of the sphere of passion and prejudice We, therefore, protest, quite as passionately as Principal Griffiths at the British Association against the State attempting to keep the University in leading strings, simply because it contributes recurring or non recurring grants to University funds

Rumour has it that the number of Inspectors of Schools will be. increased by the the There are some amateur critics of sections and policy that oppose any increase in the number of Inspectors They say 'there are more. In spectors than schools This we consider a

prejudiced criticism. In old times attempts were constantly made to improve teaching by changing the style of examination It was an article of belief with most educational reformers that a new style of examination will help to bring about a new style of teaching This hope has been discovered to be ill founded a new style of examination means a new style of cram and not an intelligent reform of methods of teaching. The external examiner can never help to improve methods of teaching nor can the average teacher be expected to move in the matter for he is so ill paid and so much sat upon that he has neither money nor initiative. The only person that can reform methods of teaching in schools is the Inspector and this he can do only if he is informed and enthusiastic While we welcome therefore the increase in the number of Inspectors we hope that the right men will be chosen and the new Inspectors will prove a help and not a hindrance to the improvement of teaching methods In the case of Indian Inspectors in most cases in the nast either they have risen by stress of long service from the Sub Assistant In spector's grade when the grand of office work of manufacturing returns and reports has killed out what little soul they had or from tle professorial staff of colleges when years of lecturing on mathematics or metaphysics had snuffed out all remembrance of school life and school subjects A much better method of choice of Inspectors (and we hope half of the new Inspectors will be Indians) would be to select men who have taken a good degree appoint them probationary Inspectors send them to Europe to study methods of school education for a year or two and then make them pukka Inspectors As regards England appointed Inspectors we do not know how the

Secretary of State selects them, but we know that some of them are very good and others not quite up to the mark. Some are fresh from the Colleges without any experience of Indian or other schools. They should serve as probationary Inspectors at least for a year in India to enable them to learn the conditions of Indian schools and veranculars. It will not be too much to institute an examination for them in the vernaculars as at it is in the case of Civilians and others. It would be seen that here, too, there was great need for reform of the methods of recruitment.

To some people Sir Oliver Lodge's presidential address has proved disappointing They ex-British Associ-

pected, from his eminence ation. as a physicist, to hear him discourse on the recent discoveries in Physics which now-a-days chase each other so rapidly that even earnest students can scarcely keep pace with them, or from his dallying with psychical research, to hear blood-curdling tales of spooks from the land beyond the grave and what enlightening information he might have derived from such weird sources He avoided both these and went, as it were, on a side-track. Pointing out that discontinuity is the mark of the things we have to deal with in Mathematics, Physics and Chemistry, he averred his faith in ultimate continuity. The problem of continuity necessarily involves the question of the properties of ether, the hypothetical malaprakriti of modern science and Sir Oliver Lodge gave a lucid exposition of the characteristics which we have to endow ether with, so that it may prove a useful concept in Physics. In this connection he attacked the principle of Relativity in the extreme form held by Prof.

Einstein. The principle of relativity says that "no effect of any order of magnitude can be observed without the relative motion of matter," in other words, that we can never ascertain motion with reference to ether. To oppose this view, Sir Oliver Lodge suggests that we can do so by comparing the speed with which we move through ether with the speed of light. Into the details of his suggestions we need not here enter. From a vigorous defence of the real, objective existence of ether, Sir Oliver Lodge passed on to a defence of vitalism. "The ether makes no appeal to sense, and therefore some are beginning to say that it does not exist. Mind is occasionally put into the same predicament. Life is not detected in the laboratory, save in its physical and chemical manifestations; but we may have to admit that it guides processes nevertheless." From vitalism. Sir Oliver Lodge slipped on to a defence of the immortality of the soul and deprecated the pugnacity of mood which still clings to some scientific men with regard to theology, and wound up by drawing attention to the "Immanent grandeur," which we will be deaf and blind to, "unless we have insight enough to recognize in the woven fabric of existence, flowing steadily from the loom in an infinite progress towards perfection, the ever-growing garment of a transcendent god,"

Far and away, the most important paper read at the British Association, from the standpoint of the extension of scientific

knowledge," was the "one read by Mr. Frederick Soddy to Section!B. It announced the great discovery of the year 1913, that of the general law governing the passage through the periodic (table of the

elements in process of radio active change " As the result it is possible to write the three di integration series of uranium thorium and actinium across the periodic table so that each member falls into its proper place in the case of the twenty seven members th chemistry of which is known. The general law is that in an a ray change when a helium atom carrying two atomic charges of positive electricity is expelled the element changes its place in the periodic table in the direction of diminishing mass and diminishing group number by two places. In a 8 ray change when a single atomic charge of negative electricity is expelled from the atom as a & particle and also in the two changes for which the expulsion of rays has not yet been detected the element changes its position in the table in the opposite direction by one place We cannot go into further details nor reprint the table which illustrates the discovery for that will interest only the specialist But we quote the final paragraph of Mr Soddy's paper which indicates the The chemical general lines of the work analysis of matter is thus not an ultimate one It has appeared ultimate hitherto on account of the impossibility of distinguishing b tween elements which are chemically identical and non separable unless these are in the process of change the one into the other But in that part of the periodic table in which the evolu tion of the elements is still proceeding each place is seen to be occupied not by one ele ment but on the average for the places occupied at all by no less than four the atomic weights of which vary over as much as eight units It is impossible to believe that the same may not be true for the rest of the table and that each known element may be a group of non separable elements occupying the same place the atomic weight not being a real constant but a mean value of much le s fundamental interest than has been hitberto supposed. Although these advances tow that matter is even more complex than I mical analysis alone has been able to rival they indicate at the same time that the problem of atomic constitution may be more simple than has been supposed from the lack of simple numerical relations between the atomic weights

The over crowded Carriculum America Thevare beginning to attract the attention of several edu cationists in England and America Thevare begin

ning to realize that there must be something rotten in an educational organization that per mits of but two periods of 15 minutes each in a week to be devoted to subjects like History Geography Algebra, &c The overcrowding of our curricula is due to the false theory that the object of school work is to pour as much knowledge of as many subjects as possible into the minds of pupils Says a writer in School Science and Mathematics in an article of Academic inefficiency - The curri cula of our schools from the Kinders arten to and including the University are crowded he and all reason and all hope of producing the best results To be able parrot hie to recite rules and formula is not education walking through a botanical garden does not make a botanist it is that which ile student masters that makes lim a student going through books does not educate one There is a great difference between one's going through a book and having the book going through him Too many studies in a given time cut off the time necessary for reflection

-a prime essential to thoroughness. Intensiveness is not the child of extensiveness One's scholarship is not measured so much by its breadth but by its depth. The disciplinary and cultural value of a course does not depend so much upon the number and kind of subjects in the course as upon the way in which it is taught and studied." We wish the people who clamour so persistently for what they very inaccurately phrase as "the reintroduction of the vernaculars." will read and understand the sound educationat doctrine contained in the above extractwhat the student cannot master is not worth making him study. The history of the study of vernacular poetry-that is what "the reintroduction of the vernaculars" really means-for the past fifty years has proved to the hilt that not one in a hundred can master it . why, then, should the other ninety-nine go through the treadmill, be stuffed with pabulum which they get rid of at the earliest available opportunity? The slightest acquaintance with modern educational principles will enable these agitators to realize how frightfully outof-date they are in their demands, how they take much trouble to pull back the progress

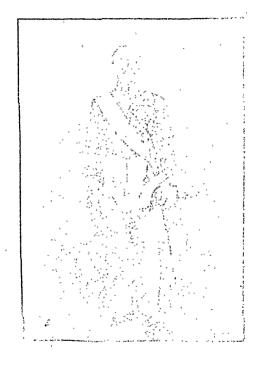
Most school boys know that the current of warm water that leaves the Gulf of Mexico under the name of the Gulf Stream affects the climate of the west coast of

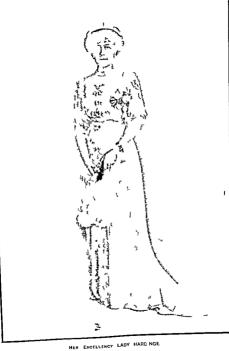
of real education in our midst !

milliards of calories by the gulf stream have now been discovered. Water retains heat easily, so that when the waters of the Gulf Stream reach high latitudes, they preserve enough heat to raise the temperature of the air that rests on them higher than the surrounding temperature. Thus an zerial gulf stream superposed on the watery gulf stream is produced. This zerial current flows over Europe, precipitating as rain the enormous masses of water-vapour it carries; it is this plentiful rainfall that feeds the numerous lakes of Sweden, Finland and Northern Russia. But on account of the rotation of the earth, the zerial current turns to the east. Having dropped its heavy burden of aqueous vapour, it is now a current of dry cold air and as such it flows over the plains of Russia. The current then turns south and nearing the Equator, it is again warmed, but as it now flows not over the sea but over a land mass, it cannot gather any water vapour, and becomes a current of hot, dry air Its direction is now north-east and blows its devastating breath over Turkestan, Arabia, and Sahara, which are on its return route. "After having left the Continent, the ærial current, thanks to the trade-winds, links itself on again to its starting point, the Gulf Stream, thus looping its circuit after its having, like everything else, done much good and much exil."

Europe But other far-reaching consequences

of the daily transportation of 40 millions of





Ђ € Lord Ђardinge.

the teeming millions of the south we had.

Thee august ford that be use on Indra's soil.

Britan's thrice sacred trust and sovern tol.

Hou noble striceman piloting her sail.

In storm and stress with wise and loving care.

Thou hast our deep felt homage true and free.

Through all this land of palm and sharme from so a feet of the sail of

Renignance crowns the brow with glorious might With Even tempered power worshipped more And held in greater love than all the roar Of heartless stermines. Mercy throned with Right Befriends thy labour for the highest weal

Of India's sons to bring them ampler lif

In I growth and soften all their longing strift

To sweet content with Bount's calming scal

Dowered with spirits unfaltering and braic. No distant villany could dim thy lose. For India s millions—it made thee you. The first in them with renewed strength and strength the loyal children from the loathsome breath of turn disspicion. The wicked hand Ignobly raised in hatred smote the land With sorrow keener than the pain of Deuth

In hands have hely of to flash the sacred light Of knowledge through this spatious realm the wills Upreared in Learning's cause the stored hall. Whence India is myraid flowering youth will sight Truths gleaming tops shall blazon forth thy fame Io distant time and on the hallowed soil. Of ancient Delhi will be shinned thy toil in sure and dome to sueak thy mighty name.

The roll of India's rulers holds thee dear The son that came to Ind. In closer love The land his fathers won Thy zealous yow For India's happness and good shall cheer All future statesmen and thy memory Oi brutulu endeasour and golden peace Shall ever ring in Orient lands and sers With echoes heard along eternity

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TO BE A CHEMIST.

CONSCIOUS as I am of my mability to anggest instructions to teach and study chemistry, my interest in students would. I think, be a sufficient excuse if I attempt to do so. The science of chemistry has, of recent years, taken an important place in the Secondary and Collegiate course Many teachers are in a puzzle to find out what their aim must be in imparting instructions in the science and even if they are told the true aim of teaching, they do not know how to fulfil it With such teachers who are unequal to the task imposed on them, it is but natural that atudents are mable to grasp the subject properly With such students as our future citizens, India must suffer a consider-

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able loss economically through neglect of science

It must be admitted on all hands that it is a sheer waste of time to teach abstract ideas such as the kinetic hypothesis, atomic theory and ionic theory in the elementary course without familiarising the students with the common facts from which the generalisations have been developed. While teaching the facts the teacher in the course of his lessons and experiments will try his best to insist on the students to pay more attention to scientific method than to facts. So much so, the students may afford to forget the facts as they derive more lasting benefit from the coursed method.

The great importance to the students of himsell performing experiments relating to the facts cannot well be over rated. Very fre queutly, practical work; a taught and practised in such a manner as to degrade at to the level of a purely mechanical and often unntelligible series of rule of thumb operations. Such a student who has not nobler aspirations and who, therefore, does work in this fashion is sare to meet with failure in his goal of life

How then should a student work? What may he expect from a general laboratory course? First he develops a skill in observation and general manipulation. The importance to the student of making careful notes of his work, while in progress, cannot be overestimated, as perhaps, more than anything else, this is calculated to develop in him those habits of exact observation, self reliance and resource which are essential qualities in a scientific man.

Secondly, he collivates his imaginative faculty and creates in him a reflective turn of mind. It must be granted that facts alone will not make a scientific man. It is the sole daty of the teacher to indicate to the student the more relevant and significant facts to be committed to memory and used as material for the exercise of his intellect. Now it falls to the student to reflect logically and systematically on the observed data and draw legitimate inferences from approved evidence.

To ceutre soccess as a chemist, it is absolutely necessary that the student shall collirate the imaginative faculty and dovelop a critical and impartial judgment. More than anything else, rigorous housty in recording what is observed and absolute impartiality in inferring from the available data are indispensable factors of access.

P. A. NARAYANA AIYAR.

FORMATION OF CHARACTER

1. THE OPJECT OF EDUCATION:—The wisest of mankind, at the present day, want more tangible books their renning brooks, and more andible sermons than atoms can furnish. The civilized man differs from this—sarage, from brute creation, even in this—that be have capacities latent in him which, when properly developed, enable him not merely to exist symbox, but to live an intelligent, meful, and good life. The petentialities in him have to be drawn out, developed, and perfected to be drawn out.

with a view to qualify him to face the battle of life manfully and honefully. Physically, mentally and morally the child grows up, and has to be helped to grow. The object of education is to belo this natural growth, to furnish facilities for the child's full and harmonious development. Though in studying the child's complex nature, we may concentrate attention upon the physical or mental or moral aspect, yet we should never forget that the child's growth is that of an organic though complex whole. No system of education can, therefore, be said to be complete which does not consciously and intelligently accelerate the concentric growth of the child-which does not make out of bim a strong, intelligent, upright and useful young man. The system obtaining at present in this country, because it attaches under importance to the training of the intellectand even of that only in certain directions, because it makes not sufficient provision for physical culture, and almost none for developing the active virtues of life, therefore is it faulty. The problem of devicing a fairly efficient and complete system-not to say perfect-is by no means easy ; but cannot and should not on that score be resigned as honeless

hopeless.

2. The Score or one Enguera:—And in
the first place we have clearly to define the
scope of our attempt. It is not a philosophic
al inquiry in which we are a present
sugged. We do not want to formulate the
conditions under which character is formed.
We are trying to solve a very difficult, but a
very practical, educational problem—to secertain what should and could be done in schools
and colleges to help the boys to grow into
vigorous manhood. And we deliberately
confine our attention to what should be done

can "pick up" more easily at home! It cannot be done at schools, this "training of the emotions," is the learned explanation. and must be left into the hands of the parents! A mother can almost instinctively draw forth the child's love, and she ought to direct his emotional impulses into healthy channels in the early years of her boy. What precious psychology all this is ! as if indeed there are such distinct periods of life, and separate agencies of education-for inculcating "the feelings," for training "the intelligence" and for strengthening "the will"! It is time that teachers at any rate give up such false notions. I do not deprecate the value of a good home, the benign nower for good that a capable mother can exert all through life, or the strength of the fairy ideals that she builds up for the boy in his earliest years. But I emphatically maintain that it is in his school that a boy's personality is developed; it is developed in the course of the corporate life he leads along with others, in his desire to love and be loved by his peers. in his desire to maintain his self-respect before them, in his curiosity to know what others know, in his desire for fair-play and justice. And who but the teacher can shape this corporate life of the boys? Very real and very responsible is his work. He has to devise intelligent methods for the boys to grow together. and develop their best traits. He has to study the idiosyncracies of his pupils, note their good and bad traits, rouse their higher and nobler feelings, and so curb their lower and baser impolses. He has to study the special aptitudes of his boys, to study their physical capacities, to correlate manual work with intellectual and moral instruction; he has to take an interest in drill and gymnastics, in games and sports-in everything that affects the well-being of the boys. By precept and by example he has to present to them in the most life-like colours high ideals which they would for ever cherish and aspire to. Such a teacher loves best and longest in the pupil's wind.

5. PRESENT CONDITIONS :- But, is not all this being done at present? Some people answer in the affirmative, but with a qualification-"as far as possible;" that is with a qualification which but paints the glow of youth on faded cheeks. But why should not all this be done at present? In answer to this question I shall very briefly enumerate the unfavourable conditions under which we now have to work :--(i) Inadequate perception of the ideal to be aimed at: Education at present is what it was certainly twenty years ago, and probably forty or even sixty years ago when the Universities were first founded. It is primarily a means for securing appointments by passing examinations in various subjects. The ideal of a complete education, of the endeavour to give as much prominence to physical and moral as to intellectual training is discreetly reserved for departmental reports and auniversary speeches ! (ii) The Domination of Examinations :- Public examinations and college regulations still govern the results of work simed at in High Schools. The S. S. L. C. scheme has made only a slight move towards a goal which as yet is hardly within sight. The new S. S. L. C. Public Examination has taken the place of the old Matriculation; by the number of boys securing sufficient percentage of marks therein, by the number of those who secure admission into colleges, is the work of the school still gauged; the 180 working days we try to make up in a year, and the 5 working hours we have each day, are hardly enough to drill the boys up in the A and C groups of the S. S. L. C. syllabus Many a Headmaster has pathetically exclaimed to me "Where is the time. Sir. for moral instruction? From what subject on the time table can we possibly cut off even a period or two a week? As for games and sports you see our accommodation is limited , we certainly do the best we can! Indeed the only matter in which one school tries to compete, or is compared, with another is in that of examination results (iii) In sufficiency of a commodation, funds etc How many institutions in the Presidency have sufficient play grounds for even 10 per cent of their pupils ? (iv) Lack of public spirit and initiative , (v) Inadequate appreciation of the teacher's work - (I deal with this point at length further on). (vi) Inadequate know ledge on the part of teachers themselves as to methods of moral education -Thus one very old teacher at a recent conference asked me "What is it. Sir. you want me to do which I am not doing now? I do my daty as conscientiously as possible, and ask my boys to do their duty as well as they can I tell them whenever necessary what is right and what is wrong What more need be done?' Aye-what more need be done? He is by no means the only one whose conception of moral education is limited, who has no idea of what is meant by creating an atmosphere of active love in which the boys will ambibe pure and lofty ideals of conduct and character and strive to smulate one another by keen vet healthy endeavour Indeed, exceptions apart, the majority of Indian teachers fall into one or other of three classes -(a) a few who rely too far upon direct moral and rela gious instruction, (b) a good many who depre cate unduly the value of such instruction, utter the sapient warning that example is

better than precept, and cynically smile upon all enthusiasts and (c) those, by far the largest number, who do not consider it discreet to express any opinion definitely, apply the world old solution of the rod to all delinonencies and would, when pressed, ask us to wait and see what the Government is going to resolve and recommend upon the matter I

6 THE POLICY OF THE GOVERNMENT -We cannot therefore be too thankful for the amphatic declaration that "in the forefront of their educational policy the Government of India desire to place the Formation of Character of the scholars and under graduates under tuition" In Bombay, we are told that the question of moral and religious instruction is being tackled practically, and that in other provinces committees were appointed almost two years ago to report on the question We are assured that though "for the present the Government of India must be content to watch the experiment" yet they "keep the matter prominently in view" Naturally the machinery of Government moves very slow yet, by this time surely. the various Provincial Committees must have submitted their reports But whatever the upshot of their recommendations is going to be, whatever special methods will be devised in future for the formation of character, yet, even as the matter now stands, consistent with the declaration already made by Government, two general measures the Government will surely have to adopt (i) In the first place, steps will have to be taken for impressing upon all the teachers of the land the ideal set up by Government, and the practical bearings of that ideal upon methods and organisation of school work. For it is the teachers that have to be taught in the first

instance. It is not enough for the Government of India to notify the ideal; it is not enough to point out that "in the formation of character the influence of home and the personality of the teacher play the larger part." The "home" is naturally a factor which must be left to improve itself; but it certainly behaves Government to do all it can to improve "the personality of the teacher." It is curious to read that " the Bombay Government are engaged upon the preparation of a book containing moral instructions" for the benefit of teachers. For text-books by themselves can never solve the problem; and I emphatically declare this. although I am myself the author of A Handbook of Morals,' We want preeminently not codes of instructions, not moral charts, but living teachers possessing enthusiasm, knowledge, hopefulness and strength. who will be most inspiring books in themselves. The knowledge that most teachers want more than they possess at present is not. solely or even mainly, of duties and virtues, of moral anecdotes and religious biographybut of practical psychology, of the laws of mental action and reaction, of moral organisation, of methods of persuasion, of the manner in which to present ideals and make them live in the hearts of pupils. Even if we have only a teacher or two in each school possessing such knowledge, the problem will be satisfactorsly solved. Therefore the first step that Government should take is (a) to provide for such instruction in training schools and colleges as will qualify the future generation of teachers to be moral educators as well; and (b) to institute courses of lectures to be delivered upon "methods of moral education" by competent persons to existing teachers. (ii) A second practical step that, to give effect to their

declared policy, the Government should take, will obviously be to direct inspecting officers of the Department to review in far greater detail than they at present are called upon to do, the facilities (and they are not at all confined to imparting direct moral and religious instruction) alforded in each sebol for the formation of character, and to give constructive criticism and advice regarding this very important branch of education. This of course means that the inspecting officers should themselves possess the requisite knowledge to give such advice.

7. PAY AND PROSPECTS OF TRACHERS :- But even "training" and advice can have value only where the teachers are placed above ordinary wants. This is a matter, however, on which I need not expatiate. It is enough to note its bearing upon the subject on hand, to point out how preposterons it is to expect that a race of ill-paid-and in many cases half-starved-workmen, struggling hard to keep themselves and their families above the wants of civilised social life, would give that whole-timed and that whole-hearted attention to their work which in the interests of true education they ought to give. The wonder is that they should do their work even as well as at present they do.

8. CONCLESION: "Thus we see that our schools and colleges, though they have doen, and are doing, very good work, are yet deficient in many respects and in none so greatly as in affording ample facilities for the building of atrong, vigorous, and well-balenced types of character. But character, so an educational problem, has some up for discussion only in recent years, and has not, in this land telast, yet received that attention that it so pre-unineally deserves. It is not a problem that can be left entirely to home influences.

The teacher has the largest share in educating the character of the rising generation task is very arduous and requires a thorough knowledge of the development of the pupil's mind as a living and growing organism. It requires tact and enthusiasm, patience and sympathy-in other words great " personality." Text-books, syllabrases, and departmental instructions-excellent as these may be-are destined to prove futile unless the character is improved of the agency employed. Upon such character primarily depends the success of every branch of education doubt necessary to increase school accommodation where it is found wanting : it is very necessary to have sufficient fornitore and applunces, necessary to have larger and better play-grounds, to have many, many more hostels than we now have But the most necessary factor of all is the teacher's verscnality. His claims for better treatment are receiving some little attention; and eldely side with improving his status, it behoves Government to take immediate steps to improve his "personality," to give him better training, to place before him higher ideals and belo him to organise better methods of work. And the Government can do and zeed do nothing more, at least directly, perther does the education of the country need anything more so pressur.

M KRISHNANAUTRARIA M

TRAINING OF TEACHERS

MOW that education is making marked progress in every civilized country, and that thoughtful people have begun to realise that education should be controlled by the State. because the proper development of young brains is an indispensable factor in the growth of a nation, the 'equipment of teachers' should necessarily form an important topic for consideration, and should now engage more serious attention than in the past. To impart sound instruction in all branches of knowledge which would help the rising generation to be useful citizens of the land, and to build their character without which the society would lose its charming influence are functions, the difficult nature of which the man in the street may not quite grasn The responsibilities of a teacher are far more difficult and ardnove than generally imagined to be, and it should be realised that the d %. cult paters and the sacredress of his work make his profession really conobling. That he requires as much training and instruction in I is art as the members of the other professions should have, as seldom understood t and people arene that the teaching profession dore not offer suff tent worldly reward to justify any considerable extension either of time or of expense on the part of those who are to prepare themselves for it. This is sure's a silly argument, but three interested in education should aim at improving the prospects and amolements of the profession thes attracting expable and Intell gent men to sta food

Decree-see are going on in public platforms and in press of linguist, whether after all training of feachers as ind speciable, and whether a bracker can durcharps has duting botton, after a course of training. A cursory glance of the proceedings of the conferences of headmasters and headmistresses of England, held occasionally, would explain the contrary opinions held. There are those who deeply consider that training is somewhat questionable parergon and that the teacher can pick up his work by his own experience without any training whatever. They further hold that no one type or method of training is suitable for all teachers alike, and that instead of giving out psychological theory that faculties are inter-related, we must discover by personal investigation what kinds of ability are inter-related. According to them experience is the best teacher and training is a mere waste of time. Those who hold the other opinion think that there should be thought behind practice, and that after observing expert teachers handling classes and learning from them their own experiences and methods of teaching one is expected to teach better. America and Germany, the pioneers of education in the civilized world, have by result of experiment once for all decided that formal training is quite necessary. Germany has extended the period of training to five years. and it is producing excellent teachers every year who are discovering new theories in Psychology. We can safely rely on their experience and can come to the conclusion that training is imperative for teachers.

This leads us to the question whether the training should be theoretical, practical or both. Professor Adams, one of the greatest educational authorities of the modern times, observes in one of his presidential addresses: "Educational theory is so far consolidated that the whole time of Training College students might be profitably occupied on non-controversial matters." I should consider that theory of education is as important as

practice of education for both are interdependent. Teachers generally do not attach much importance to theory and as a matter of fact they forget all about it after the training course is over. Doring their actual experience they do not care to convert theory into practice. Further, teachers of secondary schools who learn much of Psychology during their training course are not given opportunities to teach the lower classes, and the mental state and the development of the brains of the pupils coming from the lower forms are not generally understood by the secondary school teacher. But if, as is done in some of the schools of Germany and America, the same teacher is asked to teach one and the same batch of students throughout their course he would then realise the importance of theory and would, in course of time, prove a successful teacher. Would theory alone do without practice!

One of the experts recently held the performance of masters as teachers is in inverse ratio to their proficiency in training.' That is because the practical side of training is often neglected. The student in training must be in touch with the University training on the subject. He should observe the teaching of experts in various subjects and note down the important points in their lessons. Discipline for example, is an essential thing for a teacher and it should be learnt practically. Further the student under training should be asked to handle classes occasionally under the supervision of model teachers; and his lessons should be thoroughly discussed and criticised. Training should mean something more than probation. Practical training should take place in specially selected schools and be conducted by the best experts. I would suggest that the teacher in training

should be required to write a thesis on a subject approved of by the University. It must give proof of personal observation of the caudidate's pupils, which slove would atrength en his knowledge of the theory.

Various schemes have been put forward for the improvement of the training colleges. In England a student is allowed to undergo both the training course and the University course simultaneously That would mean that the educational authorities in Lugland consider that even the under graduates are competent to teach the secondary school classes strongly think, from my own experience, that unless one has undergone the University course he cannot do full justice to his work in the secondary school While in India even graduates sometimes fail as teachers, I wonder how one who has no University training can infuse into the minds of his pupils the real spirit of learning, and it should be remembered that learning by rote some extracts from text books is not the be-all and end all of education The building of character of pupils is perhaps more important than imparting any knowledge, and it can be done successfully only by mature minds The personality and the moral influence of the teacher count much in strengthening the pupils' morality and character The German Universities have realised to the atmost the truth of this, and in the syllabas of work in the training colleges the Board of Education have included subjects of general nature Passing the ceneral test is made preliminary to the training course. In our own Universities at is gratifying to note that only persons of general qualifications are allowed to enter training schools and colleges. But then one suggestion, I wish to make, that is, courses of general education and training should both be XIX

done by the training colleges, as done by the German Universities It is the training colleges alone that should decide who are competent to take to teaching profession Passing some preliminary general test should be the qualification for admission into the training school or college In the University of Manchester, 150 bursaries of free tuition and scholarship are awarded to the pupils of the secondary schools who intend to become teachers. These student-teachers attend for three days a week in public elementary schools, and two days a week at the secondary schools, and after their school course is over, they enter training colleges. Here in India, people take to teaching as a stepping-stone to other professions, and the stability of the profession suffers Therefore it is imperative that stringent regulations should be introduced to obviate this evil Competent persons who can enter the teaching profession should be decided beforehand, and mediocre men should be thoroughly expelled from our schools and colleges

As I said before, the training colleges should be minied by experts whose third qualification should be that they should visitall the import antischools and colleges of the civilized world. The colleges should be made as up to-date as possible, and all the practical reforms should be introduced. Even the students under training should be taken, at least once during their training coarse, to some of the model schools and they should be required to take down notes and suggest improvements in the methods they had learn.

Again, the libraries and laboratories of the training colleges should be made as rich as possible, where the devoted student should have ample opportunities to improve have general knowledge and culture. All the edn. estional reviews should be subscribed for, and students noder training should be expected to study thos and take down notes. The experts should supervise their work occasionally and criticise it. This reform should be immediately introduced in the training colleges of India, for I know, many of the teachers coming from the training schools and colleges have their minds blank, and are ignorant of the state of education in other countries.

In conclusion, if the youth of the laud is to be properly educated remembering that the child of to-day is the citizen of to-morrow, we want first-rate teachers, and for fist-rate teachers we want first-rate training schools and colleges. Therefore it is these training institutions that should engage the immediate attention of the authorities and they should be endowed as largely as possible. The Madras Government, of course, have done much to improve the training schools of this Presidency, but still much more is to be done. Time alone will care the existing swils and we shall wai.

M. VAIDVANATHAN.

THE PRESENT S. S. L. C. MARKING SYSTEM.

IT will be well to trace the present marking system from the state of the Secondary Education before the advent of the School Final Examination.

It was during the Viceroyalty of Lord Ripon in 1882, the Education Commission sat under its formidable President, Sir William Hunter; as a result, so far as Secondary education was concerned, the High Schools were handed over to Local bodies for management, they are to supply the sinews of war, the examinations were conducted by the University, the Government control being confined to the occasional visits of the Impectorate. That the Martinulation Examination continued to hold its head from its inception till a few years acc.

There have been terrible complaints both from the press and the parents about the "slaughter of the innocenta" as they called it; there was unrest in the land caused, as they said, by the result of the Japanese war, by the doings—rather the overdoings of Lord Curzon.

The Government mind was much agitated. They saw or believed, they eaw how the Secondary education was gradully drifting beyond its mooring, saw how far they have become responsible for young India getting beyond State-control.

With a view to remedy these defects, the Government indirectly did away with the Matricnalation Examination, virtually took it off the hands of the University, appointed S. S. L. C. Board: They shaped the Corricals of Studies and brought with them this incubus of the Marking system.

Let us examine how far the Government succeeded in their attempt—though three years is too short a period to give it a fair trial. We shall touch upon only one feature of this School Final System before coming to

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The other feature is the present marking system, how did it originate? What is it intended to serve, how does the system work at present? What are the points good and had in it?

Bear with us a while, till we pass underreview the different stages through which it abould have been distilled out to us in its present shape

There was till lately a manua for Public I xaminations for the selection of untable candidates for State-service. In some quarters, where people worship the Feish of Prestips and Efficiency, as interested cry was rused that the Brahmin mendicants—the scknowledged intellectual Aristocracy of the indi-matured away the planna and encrything before them by peasing the examinations, that they successfully politie tenth part of a hair with exceptability plattice tenth part of a hair with exceptability of the control of the part of

touched not even the fringe of what they call character and all things that come under that denomination—that the backward classes and the minority were left unrepresented, the landed and the moneyed Aristocracy were weefally in the larch—therefore down with the paper examination!

Then s new principle was set up, called Selection and Nomination principle. The candidates were chosen by the presiding deity of each department, such as have been goldspoon fed, born of lone enthroned.

Nature is ever impartial—where she gives the length of the purse, to such, she reforse the wealth of brain. The result was all the satellites of the god of wealth were chased out, forcibly brought together and pressed into service, but unfortunately they clogged the wheels of the machinery of the Government.

The change from examination to selection and nomination improved not the situation as whit Now an arkward combination of the two incompatible elements—examination and selection—is now in its trial and experimental stage.

In this imperfect world, no man-made system can be perfect. Man strates after an ideal, can press closer and closer to it, but the ideal cannot be realised and must for over continue to be unreal sable

Come we now from the larger world to the small world of the school; the authorities have decided that the yearly paper test postion to the party paper test postthe personality of the teacher who is where he is, not for the purpose of training the young tree in intellectual gyamastice, but for building them up into perfect organiums phyacilly, intellectually and above all morelly; cational reviews should be subscribed for, and students under training should be expected to study them and take down notes. The experts should supervise their work occasionally and criticise it. This reform should be immediately introduced in the training colleges of India, for I know, many of the teachers coming from the training schools and colleges have their mixed blank, and are ignorant of the state of education in other countries.

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In this imperfect world, no man made system can be perfect. Man strives after an ideal, can press closer and closer to it, but the ideal caunot be realised and must for ever continue to be unreal zable.

Come we now from the larger world to the small world of the school; the authorities have decided that the yearly paper tests by themselves were useless, that that test ignored the personality of the teacher who is where he is, not for the purpose of training the young men in intellectual gymnestics, but for building them up into perfect organisms physically, intellectually and above all morally; therefore make the teachers loom large in the eyes of the popils, give them a freer hand in controlling their destiny and shaping their character, let the boy population be brought more systematically under the teachers' control and discipline.

Hence this new scheme of the marking system was nehered in to the utter dismay of the teachers and the taught. This, as we understand, is the ctiology of the marking system.

The old cry was that there were too many examinations, yearly, half-yearly, &c, the strain of which broke down young Iudia. What do we find now? The disease has appeared in a more virulent form. There are now hourly examinations by individual teachers all the year round.

We all well knew that in the High School classes, there is, not as of old, as single teacher for all subjects, but a specialist for each subject; and if there be 6 or 7 periods in a school day, the boys must pass under the view and scrutiny of each of the specialistsand these ever demand their pound of fleshnothing less will satisfy them ; the pupils thus have a number of these gods to propiciate their energy and labour is stretched to the breaking point. These teachers are frail human beings and as such have their likes and dislikes : the boys irrespective of their individual merit and mettle must bend their knees to their idiosyncrasy—lest their marks are gone. Mr. Editor, I ask you in all seriousness, whether such a kind of double life in our students would not dwarf their moral growth, would not give them a schooling in hypocrisy. To think of the impartiality and the justice-loving nature of these people who are passing rich with 40 to 100 Rs. a month is make haman nature immaculate.

Thus the one sad feature noticeable now in our boys is their utter loss of self-assertion and boyish prauks. We find that, instead of sprightly beaming faces, a pack of boys with alavish looks, whenever the teachers flourish their formidable weapon, the Mark Register, they carry in their arm's pit as the baton and symbol of their office in their hourly march from one class to another.

Now come to the teachers: they are an honest, hard-working people; their teaching work in all conscience is enough to break their back; add to this, their submission by the end of every month to the Headmaster the percentage average marks of the boys in each subject they teach; on an average allow hundred boys to each teacher; can human flesh stand the strain of the weighing of the pupils' merit by scruples and drams? No. the result, at best, must be haphazard guess. Grant that the mark system is more or less perfect in its operation in compelling obedience to the constituted authority, and that thousand good results follow. Have we as yet seen one S. S. L. certificate where a real black sheep is propped forth is all esmest. Under the head of "general character" you find all grades of "poor, tolerable" to "good and excellent." No body dare put down indownright honest English "Here is an veritable devil, hang him." If you find one, we will make hold to call the Headmaster who issued the certificate as a remarkably stupid gentleman. The certificates do not reveal the real situation ; for which buman flesh can stand the meaning of the branded ones and the wee begone faces of their parents.

In fine, our fear rather hope is that the old order, though changed for the present, must reappear in its periodicity sconer or later, the old Matriculation, with modification under a new denomination would raise up its head thus illustrating the oft-forgotten truth that we are not a whit better than those who have gone hefore us.

A TRACHER

ENGLISH SPELLING

An Appeal to Bacon, Shakespeare, and

H G WELLS

(By a Special Correspondent)

MLE spelling reform movement derives its main support from eminent philological scholars, more particularly from those who bave given special attention to the Teutonic elements in the English language, and from the ranks of the teachers in our elementary schools, who know from painful experience how much of their time and energy is wasted in honeless attempts to teach their pupils the wonderful vagaries of our conventional epelling for which it is impossible to give rhyme or reason. The main opposition to spelling reform comes from those who are conventionally called the educated classes They have been taught on the old lines at our Public Schools and Universities, but they have not specialised in philology, and they are old fashioned enough to believe that the views expressed by Archbishop Trench represent the highest level of modern scholar ship in this particular department Some of them are men and women, whose opinion deservedly carries great weight on purely hierary matters, and their statements that the real of the spelling reformers is measuring the vigour and purity of the English language are naturally accepted at their face value by those who are already under the away of the wide-accepted superstition that

these who spell in the conventional manner are "literate" and these who spell as they please, as is recommended by Principal Sir James Donaldson of St. Andrew's University, are "literate"

One eminent opponent of spelling reform recently declared that the spelling that was good enough for Shakespears and Bacon was good enough for him No one can reason. ably deny that the spelling that was good enough for Shakespeare and Bacon proved itself an adequate vehicle for a great hterature How Shakespears himself snelt we have little means of knowing, the specimens of his calipraphy extant leave pain doubt as to the correct spelling of his name. but the spelling of his printers diverges almost as much as the "Nyu Speling" of the Simplified Spelling Society from the conventional orthography of to day In illustration of this permit me to quote the opening speech of Orlando in "As You Like lt." as printed in the First Folio Edition of Shakespeare's works published in 1623

As I remember Adam, it was voon this fashion bequeathed me by Will, but poore a thousand Crownes, and as thou east charged my brother on his blessing to breed mee well and there begins my sadnesse. My brother laques he keepes at schoole, and report speakes goldenly of his profit for my part, he keepes me rustically at home. or (to speak more properly) states me heere at home wakept for call you that keeping for a centleman of my birth, that differs not from the stabling of an Oze? His horses are bred bester, for besides that they are faire wish their feeding, they are taught their mannage, and to that end Riders decrely hir'd but I (his brother) gaine nothing under him

bat growth, for the which his Animals or his doughlis are as much bound to him as Ir besides this nothing that he es plentifully gives me, the something that nature gave mee, his contenance seemes to take from me: hee lets mee feede with his Hinder, barres me the place of a brother, and as much as in him lies, mines my gentility with my education. This it is Adam that grieves me, and the spirit of my Fatter, which I thinke is within mee, begins to matirie against this sertifulde. I will no longer endures; though yet I know no wise remedy how to axiod it.

The spelling would look even more quaint to the modern eye, if the old-fashioned long s closely resembling as f were used as it is in the First Folio. This however is a question of typography not one of spelling.

Shakespeare knew little Latin and less Greek, and, in the technical medieval sense, he might be described as "illiterate," but Lord Bacon was the most erudite man of his age, and it is surely not unreasonable to assume that he would pay some attention to the literary form of the first and other editions of his "Essays" that were published in his life-time. As a specimen of the spelliog of his printers the following quotation from his essay on "Studies" may be given :--Studies serue for pastimes, for ornaments and for abilities. Their chief vse for pastime is in privatence and retiring for ornamente is in discourse, and for abilitie is in judgement. For expert men can execute, but learned men are fullest to indge a censure,

To spend to much time in them is slouth, to vee them too much for ornament is affectation: to make judgement wholly by their rules is the humour of a Scholler.....

Some bookes are to bee tasted, others to

bee swallowed, and some few to bee chewed and digested. That is some bookes are to be read only in partes; others to be read, bot corsorily, and some few to be read wholly and with dilicence and attention.

In contrast to the quotations from Shakespeare and Bacon take the following passages in the "Nyu Speling" of the Simplified Spelling Society from "The Star" by H. G. Wells:—

Brieter it woz than eni star in our sciez; brieter than the evereing star at its brieter Letil glord out whiet and lar], no meet twincling spot ov liet, but a smad, round cleer, shiening die, an our anter the dai had cum. And whair sices has not recebt, men staird and feerd, teling won another or the worz and positioners that a forehaded bit theer fieri sices in the havens. Stardi Boors, dusci Hottentets, Gold Coast necroors, Frenchmen, Spaniards, Fortuguese, stood in the wormth or the suniviz woching the seting or this strainjup at star.

I submit that the old spelling of Shakespears and Bacon is nearly as much removed from the modern conventional spelling as the "Nya Speling." If the last mentioned is ugly so are the other two. If the diction of Mr. Wells soffers from the "Nya Spelling." Shakespeare and Bacon in Isko manner safferoid from the manner in which their thought was manufed by their printers.

There are acholars who prefer to read Shakespear's plays in the First Folio, and it might plansibly be urged that the works of Mr. Wells, a man of the new age, are most appropriately set forth in the "Nya Speling." Be this as it may, it is generally recognized that Mr. Wells has a cosmunito sense for style. He would therefore be, ble last man to allow his works to be printed in the "Nya Speling" if he thought tis medium dimmined in the slightest degree the delicacy and piquancy of his thought. In language and also in literature it is the spoken sound that really matters, as the late Professor Skeat constantly maintained, and to this our present absord method of spelling English gives no clue.

The main impression that I have sought to convey is that we can have great English literature in diverse forms of spelling When this view, which is the only possible one, when the facts are fairly considered, permeates the educated classes on England, the 'Nyu Speling" will have a fair chance of being considered on its merits, and this is all that its advocates ask you

Mr Sydney Walton, M A, B Latt, Secretary, Simplified Speling Sosieti, writes to

44 Great Russell Street
London W C.
Cet 29 A 1913

THE EDITOR,
"EDUCATIONAL REVIEW."

DEAR SIR,

I was very much interested in reading in your pages for September, the excellent paper read by Vice-Principal Ross before the South Indian Branch of the English Association in Madras

I should lke to add to the list of books be gives, the name of the "Pioneer," a monthly journal which is published by this Society Its pages are of absorbing interest to all students and teachers of phonetics. The spelling in which it is printed faithfully represents the best southern English speech and the reading of it is therefore of very great value to lovers of English bayond the borders of this country. I shall be happy indeed to have the privilege of sending a free copy to any of your readers who will apply to me.

A DOUDE

A DOUBT.

"All that is fair must fade The fairest at il the soonest

Why is it ever born—
The little child
That comes but to be gone
Our 'dearest' styled?

Why does it cross our way—
A passing star
Now here, now far away,
And part nowhere?

In snatching it away
Thus suddenly,
What revelation may
He cause to be?

The infant knew not aught
Of any sin—

For what could it have wrought
Biro summers seven?

Ab! Not for us are they Whom we may love, But soon one borne away To spheres above

They loved each other well
And love has knit
Them First his grand fell
Now be would flit

'Dear girl,' her father says
'A precious gift
Is your boy; watch his ways
That he doesn't drift.'

Ose after one they drop Before my eyes

Before my eyes
First falls the family prop
The best of ties.

The latest is this child Our darling dear That dies a death so wild But bare seven years!

Why is it ever born
The little child
That comes but to be gone

Our 'dearest' styled?

S. SEINIVASAN.

Regulation No V of 1913.

THE ELEMENTARY EDUCATION REGULATION MYSORE.

(Received the assent of His Highness the Maharaja on the 11th day of October 1913.)

Whereas it is expedient to make better provision for the extension of elementary education; His Highness the Maharaja is pleased to enact as follows:—

- 1. (1) This Regulation may be called the Ebora title, commencement and extent.

 Elementary Education Ragulation, 1913; and shall come into operation in such areas and from such dates as may be notified by Government.
 - (2) It extends to the whole of Mysore.
 - 2. In this Regulation, unless there is anything Definition. repugnant in the subject or context,—

- "Parent" includes the guardism and every person who is liable to maintain any child.
- "Education Department" means the Government of Mysore in the Education Department or the Inspector-General of Education in Mysore sciling under the Government of Mysore is matters connected with public instruction in Mysore.

"Recognised School" means a school recognised by the Education Department for the purposes of this Regulation.

"Elementary Education" means the courses in reading, writing and arithmetic and other subjects, if any, prescribed from time to time by the Education Department for elementary schools

for the purposes of this Regulation.

3. In every area to which this Regulation

Doty of parent to applies, it shall be the duty of the parent of every boy.

pears of age, residing within such area, to cause such boy to attend a recognised school for elmentary education for so many days in the year and for such time on each day of attendances may be prescribed by the Education Department, under there is a reasonable secure for the nonattendance of the hor.

- 4. (1) Any of the following circumstances

 I Non-attendance is a reasonable excuse for when excusable.

 non-attendance:

 non-attendance:
- (a) that there is no recognised school within a distance of one mile measured along the nearest road from the residence of the boy which the boy can attend;
- (b) that the boy is prevented from attending school by reason of sickness, infirmity, domestic necessity, the seasonal needs of agriculture, or other sufficient cause;
- (c) that the boy is receiving instruction in some other satisfactory manner; and
- some other satisfactory manner; and (d) that the boy has been exempted from such

attendance by proper authority, "

- (2) Where there is a reasonable excise for non attendance, a certificate of exemption may be granted by such authority and in such manner as may be orescribed by Government.
- 5. If in a recognised school in any area to which this Regulation applies No compulsion rereligious classes are held, no garding attendance of religious classes boy shall be compelled to attend such classes against the wishes of his narent
- In any place to which a notification under
- Section 1 applies, no person Prohibition of boy a shall employ any boy between employment.

the ages of 7 and 11 who a not receiving elementary education in a recognised school or has not obtained a certificate of exemption under Section 4

- 7 For the purpose of enforcing the provisions of this Regulation and rules Appointment of framed thereunder, one or School Committees.
- more School Committees may be appointed for each specified area with such nowers and in such manner as may be prescribed
- 8 (a) A parent who, without fawful excuse fails to send to a recognised Presecution school a boy, to whom Secparent.

tion 3 of this Regulation applies, shall be liable on conviction before a Magis trate to a fine not exceeding Rs 2 provided that a warning in writing shall have been served on the parent by a School Committee or by an Inspecting Officer of the Education Department not lower in rank than an Assistant Deputy Inspector of Schools

(b) In cases of repeated non-compliance, the parent shall, on convic Penalty for re tion, before a Magistrate be peated non-compliliable to a fine not exceeding Rs. 10

9. Any person who knowingly employs any boy in contravention of the Employer's liabilprovisions of Section 6 shall. ity on conviction before a Magis-

trate, be liable to a fine not exceeding Ra 20

- The Government may exempt particular classes or communities from Exemption from operation of Regu the operation of this Regulalation tion
- The Government may, by possification in the Gazette, extend the pro-Extension of Re visions of this Regulation and enlation to girls the rules prescribed there under relating to boys within any area to the case of gurls also residing in the said area
- 12 The Government may, by notification in the Gazette, make rules to provide-
- (1) for the exercise of the powers of recognising schools and courses of instruction for the purposes of this Regulation.
- (2) by whom and in what manner and to what extent exemption certificates may be granted under Section 4, Sub Section (2),
- (3) for the appointment of School Com mittees and to define their powers and duties and to regulate in what manner they shall be ever cised.
- (4) by what authorities and in what manner warning shall be given to parents before the launching of a prosecution before a Magistrate. and
 - (5) generally for more efficiently carrying out the provisions of this Regulation.

M VISVESVARATA, Dewan.

____ PDUCATIONAL DEPARTMENT

Bombay Castle 13th October 1913

No 2945 -The following Press Note No 2012. dated the 10th O-tober 1913 is published for gener al information -

Press Note

In Press Note No 1393 dated the 12th May 1913 the senction of the Secretary of State was announced to the scheme for the establishment of a College of Commerce in Bombay, and it was stated that the Becretary of State had been requested to select a suitable candidate for the post of Principal of the callege. The Severatry of State has recently from Government that a mithole candidate has not yet hem found. Although great difficulties have presented themselves in the way of the early opening of the College, puttly owing to the above reason, partly in connection with the question of accommodation, and partly because of the recently introduced changes in the University celedar, the Oereron in Goucoulis ighd to be able to amounce that it has been parishe to concert the following provisional strangements which will admit of the original intention as to the opening of the lostitution being extrafal intention as to the opening of the lostitution being extrafal intention.

- 2. The College will for the present be accommendated in the Epineance College building and instruction will be given between the hours of 8 and 10 in the morning and 8 and 7 in the eraning. It will prepare candidates for the Buchelor of Commerce degree of the Bombay University, to which it will be stillated. A fee of Ra, 40 per error, or Ra 100 for the scademic year, will be charged to the students and will be payable in advance as the commencement of each term. The College will commence work on the 20% in states.
- 3. His Excellency the Governor in Council is pleased to make the following provisional appointments in the College pending the arrival of the permanent Principal from E igland or until further orders:—

(1) Mr. K Sobramani Aiyar, R.A., LT., FSAA. (London), to act as Principal (honorary).

- (2) Mr Nilkanth Sadashiv Takikhav, M.A., to act as Lecturer in English on Re. 300 per menson.
- to act as Lecturer in English on Re. 300 per mensem.

 (3) Mr. Ramchaudra Mabadev Joshi, Mr.,

 LLB. to act as Lecturer in Political Economy on
- (4) Mr. Bhaskerrao Vithaldas Mebta, M A., LLB., to set as Lecturer in Mercantile Law on Rs. 300 per mensem.

Rs. 300 per mensem.

- (5) Mr. Sorabji Shapurji Engineer, BA., F.S. I. (London), to act as Lecturer in Accountancy on Ba. 300 per measure.
- 4. Candidates for admission to the College most have passed the Previous Examination of the Uni-

versity of Bambay or the Intermediste Examination in Arts of any other Indian University, or else must produce a certificate from the Principal of an Arts College affiliated to the University of Bombay showing that they have satisfactorily carried out the work amonized for the first two terms in Arts.

The first term of the College will be from October 22nd to December 22nd, 1913, the second from 22nd to December 22nd, 1913, the second from 22nd 1914, and the third from Jane 19th to Apgust 18th, 1914, and the third from Jane 19th to Apgust 18th, 1914 Students belonging to the first better will bearent up for the Intermediate Examination in Commerce to be held by the University of Bombay in the first water of September 1914.

Applications for admission should be addressed to the Olficiating theorery Principal of the Collector, Ajara, at 89. Apollo Street, Fort, Bowley, Mr. Ayara will be at the Elphiestone College between the boars of 8 and 10 Au on the 20th, 21s and 22nd October 1915 for the purpose of intervising condiditate for admission.

5. His Eccellency in Council in aconomics these temporary active general devices to acknowledge that the environmental device to acknowledge that the environmental devices and the environmental devices and the environmental devices and the environmental devices of Mr. K. S. Ayrar, who has consented prediging the environial include the personance Principal of the College, to give his services in an honorary capacity to the College. The Bomber Covernment are glad that this institution, which is already owns in inception to Mr. Ajava's thours in the came of commercial education, should far commonce operations under his Principalship.

By order of His Excellency the Right Honourable the Covernor in Council.

J. L. RIEU, Secretary to Government. myself in agreement with all that Henri Poincare wrote or spoke in the domain of physics, but no physicist can help being interested in his mode of presentation, and I may have occasion to refer, in passing, to some of the topics with which he dealt

SCIENTIFIC PROGRESS AND FUNDAMENTAL SCEPTIOSM

And now, chiminating from our purview, as is always necessary, a great mass of human activity, and limiting ourselves to a scrating on the side of pure science alone let us ask what, in the main, is the characteristic of the promising though perturbing period in which we live Different persons would give different answers, but the answer I venture to give is-rapid progress combined with fundamental scepticism. Rapid progress was not characteristic of the latter half of the 19th century-at least not in physics. Fine solid dynamical foundations were laid, and the edifice of knowledge was consolidated , but wholly fresh ground was not being opened up, and totally new buildings were not expected With the realization of predicted a ther waves in 1588, the discovery of X rays in 1815, spontaneous radio activity in 1889, and the isolation of the electron in 1898, expeciation of further achieve ment became vivid , and novelites, experimental theoretical, and speculative, bave been showered upon as ever since this century began. That is why I speak of rapid progress "Of the progress I shall ear litt e-there must always be some uncertainty as to which particular achievement permanently contributes to it, but I will speak acout the fundamental scepticism

Let me hasten to explain that I do not mean the well worn and almost ant que theme of the ological scepticism-that controversy is practically in abeyarce just now. At any rate, the major conflict is suspended , the forts behind which the enemy has retreated do not invite attack, the territory now occupied by him is little more than his legitimate province. It is the scientific allies, now who are waging a more or less invigorating conflict among themselves, with philosophers join-Meanwhile the ancient foe is bidding his time and hoping that from the struggle something will emerge of benefit to himself Some positions he feels, were too hastily abandoned and may, perhaps, be satrieved, or, to put it without metaphor, it seems possible that a few of the things prematurely denied because asserted on inconclusive evidence, may, after all in some form or other, have really happened. Thus, the old theological bitternees is mitigated, and a temporizing policy is either advocated or matinetively adopted

SOME DOMINATING CONTROVERSIES.

To illustrate the nature of the fundamental scientific or philosophic controversies to which I do refer would require almost as many addresses as there are sections of the British Association, or, at any rate as many as there are chief cities in Anstralia, and perhaps my successor in the chair will continue the theme but, to exhibit my meaning very briefly, I may cite the kind of domi nating controversies now extant, employing as lar as possible only a single word in each case so as to emphasize the necessary brevity and insoff ciency of the reference In physiology the con flict ranges round vitalism, (My immediate predecessor dealt with the subject at Dundes) In chemistry the debate concerns atomic structure (My penultimate predecessor is well aware of pugnacity in that region). In biology the dispute is on the laws of inheritance (My successor is likely to deal with this subject probably in a way not deficient in liveliness) And besiles these major controversies debate is active in other sec-In education curricula generally are being overhauled or fundamentally criticized, and revolutionary ideas are promulgated concerning the advantages of freedom for infants. In economia and political science, or sociology, what is there that is not under discussion? Not properly alone, nor land alone, but everything back, to the Garden of Eden and the inter relations of men Lastly in the vast group of matheand women matical and physical sciences, 'slurred over rather than summed up as Section A," present-day scepticism concerns what, if I had to express it in one word, I should call cont nuity. The fail meaning of this term will hardly be intelligible without explanation, and I shall discuss it presently.

Still more fundamental and deep rooted than any of these sectional debates, however, a crusslessmann of secretific foundations generally as going on , and a kind of philosophic scoppoint as the ascendant, resulting in a mistrate of partly intellectual processes and in a recognition of its limited scope of science.

DEFENCE OF NAWYORIAN MECHANICS.

Not by philosophers only, but by accentific uses also, ancient postulates are being pulled up by the roots. Enjacents and mathematicians are being in consider whether the long known and well-exhabited law of mechanics hold true every here and always, or whether the Accionate Schemenut be replaced by comething more modern,

something to which Newton's Jaws of motion are but an approximation. Indeed, a whole system of non-Newtonian mechanics has been devised. having as its foundation the recently-discovered changes which must occur in hodies moving at speeds nearly comparable with that of light. It turns out, in fact, that both shape and mass are functions of relocity. As the speed increases the mass increases and the shape is distorted, though under ordinary conditions only to an infinitesimal extent. So far I agree; I agree with the statement of fact : but I do not consider it so revolutionary as to overturn Newtonian mechanics. After all, a variation of mass is familiar enough, and it would be a great mistake to say that Newton's second law breaks down merely because mass is not constant. A raindrop is an example of variable mass : or the earth may be, by reason of meteoric dust; or the sun, by reason of radio activity; or a locomotive, by reason of the omission of steam, In fact variable masses are the commonest for friction may abrade any moving body to a microscopic extent.

That mass is constant is only an approximation. That mass is equal to ratio of force and acceleration is a definition, and can be absolutely accurate. It holds perfectly even for an electron with a second law that the variation of mass with velocity has been experimentally observed and compared with theory. I urge that we remain with, or go back to, Newton, I see no reason against retaining all Newton's laws, discarding nothing all Newton's laws, discarding nothing but supplementing them in the light of further knowledge.

MORE DISCOVARY, MORE COMPLEXITY.

One thing is very notable, that it is closer and more exact knowledge that has led to the kind of acconting aceptacism now referred to ; and that the ample lans on which we used to be working were thus timple and discoverable because the full complexity of existence was tempered to our ken by the roughness of our means of observation. Kepler's laws are not accurately true, and if he had had before him all the data now available he could hardly have discovered them. A planet does not really move in an ellipse, but in a kind of hypocycloid and not accurately in that either. So it is also with Boyle's law and the other simple laws in physical chemistry. Even Van der Waals's generalization of Boyle's law is only a further approximation.

In most parts of physics simplicity has sooner or later to give place to complexity; though certainly 1 urgs that the simple laws were true, and are still true, as far as they go, their inaccuracy being only detected by farther real discovery. The reason they are departed from become known to us; the law is not really disobeyed, but is modified through the action of a known additional cause. Hence it is all in the direction of progress.

THE FIGUR DETWEEN CONTINUITY AND DISCONTINUITY.

If we had to summarize the main trend of physical controversy at present, I feel inclined to urgs that it largely turns on the question as to which way ultimate victory lies in the fight between continuity and discontinuity. On the surface of mature at first we see discontinuity : objects detached and countable. Then we realize the air and other media, and so emphasize contimulty and flowing quantities. Then we detect atoms and numerical properties, and discontinuity once more makes its appearance. Then we invent the wther and are impressed with continuity again. But this is not likely to be the end; and what the ultimate end will be, or whether there is an ultimate end, is a question difficult to answer.

The modern tendency is to emphasize the discontinuous or atomic character of everything, Matter has long been atomic, in the same sense as anabrepology is atomic; the unit of matter is storm, as the unit of humanity is the individual, Whether men or women or children—them as the unit of humanity is the individual, whether has no women or children—them as the matter can be counted as so many "souls." And atoms of matter can be counted too.

Certainly, however, there is an illusion of continuity. We recognize it in the case of water. It appears to be a continuous medium, and vet it is certainly molecular. It is made continuous again. in a sense, by the ather postulated in its pores; for the wither is essentially continuous, though Osborne Revpolds, it is true, invented a discontingous or granular sether, on the analogy of the seashore. The sands of the sea, the hairs of the head, the descendants of a patriarch, are typical instances of numerable, or rather of innumerable, things. The difficulty of enumerating them is not that there is nothing to count but merely that the things to be counted are very numerous. So are the atoms in a drop of water-they outnumber the drope in an Atlantic Ocean-and, during the briefest time of stating their number, 50 millions or so may have evaporated; but they are as easy to count as the grains of sand on a shore.

THE INVASION OF NUMBER INTO UNSUSPECTED REGIONS,

Electricity itself-i.e., electric charge-strangely enough has proved itself to be atomic. There is a

natural unit of electro charge, as supereted by Faraday and Marwell and numed by Johnstone Stoney Some of the electron's number effects were attitled by Grocker's proper of the weighing and measuring by J. Thomson were announced to the Bittab Association meeting at Dorer in 1899—a fitting preliads to the 20th Century

Even magnetism has been suspected of being a atomic and its hypothetical unit has been nau ed in advance the magneton , but I confess that here I have not been shaken out of the conservative view We may express all this as an invasion of number into mesuspected regions Biology may be said to be becoming atomic. It has long had natural units in the shape of cells and nucles, and some discontinuity represented by body boundaries and cell walls, but now, in its laws of heredity as studied by Mendel, number and discontinuity are strikingly apparent among the reproducative cells. and the varieties of offspring admit of numerical specification and prediction to a surprising extent, while modification by continuous variation, which seemed to be of the essence of Darwinism, gives place to, or at least is accompanied by mutation, with finite and considerable and in appearance discontinuous change So far from Nature not making jumps, it becomes doubtful if she does anything else Her huberto placed course, more closely examined, seems to look like a kind of steeplechase

X4 and obtained promise a fine of september as a model seed processing the published products as suggested by all high sections, as suggested based are of continuous chain of heredity from 2 before the anicha up to man. Actual continuity of and purg gern plans, running through all generations, a largest likewise, though a strange discontinuity shad would cover a hold of the production of the continuity of the continuity of the covery individual mino mere when the property accretions or exceeding a model of indiagoning or conveying appetience to their generating cells—is advented by one school.

DISCONTINUITY AND PURE MATHEMATICS.

Discontinuity does not full to extress factors too even in pure cathernatie. Carre as an invent of which have no tangent or differential entry, curred which have no tangent or differential entry, curred which consist of a succession of days or of twast, and the theory of commencariable or of twast, and the theory of commencariable philosophic days and thought a demination of physical problems. And the proposed as well as over physical problems and the proposed of the days of the da

ter of energy is advocated. We had hoped to be honoured by the presence of Professor Planck, whose theory of the quantum, or indivisible unior atom of energy, excites the greatest interest, and by some is thought to hold the field.

Then again radiation is showing signs of becoming atomic or discontinuous. The corpuscular theory of radiation is by no means so dead as in my youth we thought it was Some radiation is certainly corpuscular, and even the miberial kind shows indications which may be misleading. that it is as ofty or locally concentrated into points as if the wave front consisted of detached specks or patches, or, as J J Thomson says, "the wavefront must be more analogous to bright specks on a dark ground than to a uniformly illuminated surface, thus suggesting that the ather may be fibrous in structure, and that a wave runs slong lines of electric force, as the genius of Faraday surmised might be possible, in his "Thoughts on Hay Vibration" Indeed, Newton guessed something of the same kind, I fancy, when he superposed a ther pulses on his corpuscles.

IMPORTANCE OF RADIATION.

Whatever be the truth in this matter, a discission or radiation, of extreme weight and toleres, though likewise of great profundity and techniques, the profusion of the profusion of the profusion Lorentz, Dr. Arrhends, and there, some of whom have been specially natured to highest because of the important contributions which they have made to the subject matter of this discussion.

Why is so much importance attached to radiation? Because it is the best known and longest studied link between matter and either, and the only property we are acquainted with that affects the unmodified great mass of other alone bleotricity and magnetism are associated with the modifications or engularities called electrons most phenomena are connected still more directly with matter. Radiation however, though excited by an accelerated electron, is subsequently let loose in the other of space, and tratels as a definite thing at a measurable and constant pace - a pace independent of everything so long as the ather to free, unmodified and unloaded by matter. Hence radiation has much to teach us and we have much to learn concerning its nature. How far can the analogy of granular, corpusoular, countable, atomic, or discontinuous things be pressed? There are those who think it can be pressed very far. But to avoid misunderstanding let me state, for what it may be worth, that I myself am an upholder of ultimate continuity and ferrent believer in the other of space.

. PROGRESS IN THE STUDY OF MOLECULES.

One very valid excase for the prevalent attitude towards discontinuity is the astonishing progress that has been made in actually seeing or almost seeing the molecules, and studying their arrangement and distribution.

The laws of gases have been found to apply to emulsions and to fine powders in suspension, of which the Brownian movement has long been known. This movement is caused by the orthodox molecular bombardment, and its average amplitude exactly represents the theoretical mean free path calculated from the "molecular weight" of the relatively gigantic particles. The behaviour of these microscopically visible masses corresponds closely and quantitatively with what could be predicted for them as fearfully heavy atoms, on the kinetic theory of gases; they may, indeed, be said to constitute a gas with a grammolecule as high as 200,000 tons; and, what is rather important as well as interesting. they tend visibly to verify the law of squipartition of energy even in so extreme a case, when that law is properly stated and applied.

Still more remarkable-the application of X-rays to display the arrangement of molecules in crystals, and ultimately the arrangement of stoms in molecules, as initiated by Professor Lane with Dre. Friedrich and Knipping, and continued by Professor Bragg and his son and by Dr. Tutton, constitute a series of researches of high interest and promise. By this means many of the theoretical anticipations of our countryman Mr. William Barlow and-working with him-Professor Pope, as well as of those distinguished crystallographers von Groth and von Fedorow, have been confirmed in a striking way. These brilliant researches, which seem likely to constitute a branch of physics in themselves, and which are being continued by Messrs. Mosely and C. G. Darwin, and by Mr. Keens and others, may be called an a potheosis of the atomic theory of matter.

ADVOCACY OF A COMMERCATIVE ATTREDE.

Now in all the delatable matters of which I have indicated possibilities I want to rape a conservative stitude. I accept the new experimental results on which some of these theories—next as the principle of relativity—are based, and amprofoundly interested in them; but I do not feel that they are so revolutionary as their propounders think, I see a way to retain the old and yet

embrace the new, and I urge moderation in the proceeding and removal olfand-marks. And of these the chief is contieutly. I cannot imagine the sertimon of mechanical force across empty space, no matter how minute; a continuous medium seems to me seential. I cannot admit discontinuity in either space or time, nor can I imagine any sort of experiment which would justify and any sort of experiment which would justify and the abypothesis. For early we must realist that we may be a supported to the second of the second o

THE REALITY OF THE ÆTHER.

Very well then, what about the ather-is that in the same predicament? Is that an abstraction or a mere convention, or is it a concrete physical entity or which we can experiment? Now it has to be freely admitted that it is exceedingly difficult to make experiments on the other. It does not appeal to sense, and we know no means of getting hold of it. The one thing we know metrical about it is the velocity with which it can transmit transverse waves. That is clear and definite, and thereby to my judgment it proves itself a physical agent, not indeed tangible or sensible, but yet concretely real. But it does elude our laboratory grasp. If we rapidly move matter through it, hoping to grip it and move it too, we fail; there is no mechanical connexion. And even if we experiment on light we fail too. So long as trapana. rent matter is moving relatively to us, light can be affected inside that matter; but when matter is relatively stationary to matter nothing observable takes place, however fast things may be moving, so long as they move together.

Hence arises the idea that motion with respect to subtris meaningless; and the fact that only relative motion of pieces of matter with respect to such other has of ar been observed is the foundation of the principle of relativity, it soonds simple enough as these stated, but in its destipments it is an ingenious and complicate which have been worked out by Professor Which have been worked out by Professor Einstein and his disciples with consummate ingentity.

Now the facts are the too motion with reference to the ather alone has ever yet been observed; there are always curious compensating effects which just cancel out the movementterms and destroy or effectively make any phenomenon that might otherwise be expected. When matter mores past matter observation can be made; but, even so, no consequent locomotion of sether, outside the actually moving particles, can be detected.

MEASUREMENT OF ETHERIAL MOTION

To detect motion through m'her we must use an atherral process. We may use radiation and try to compare the speeds of light along or seroes the motion, or we might try to messore the speed, first with the motion and then against it. But how are we to make the comparison? If the time of omission from a distant source is given by a distant clock, that clock most be observed through a telescope-that is, by a beam of light, which is plainly a compensating process. Or the light from a neighbouring source can be sent back to us by a distant mirror. when again there will be compensation Or the starting of light from a distant terrestrial source may be telegraphed to us, sither with a wire or without, but it is the m her that convey the message in either case, so again there will be compensation Electricity, magnetism, and light are all effects of the other. Use cobesion then . have a rod stretching from one place to another. and measure that But cobesion is transmitted by the other too, if, as believed, it is the univer sal binding medium Compensation is likely, compensation can, on the electrical theory of matter, be predicted Use some action not dependent on wither, then. Very well, where shall we find at P

The facts we are living in an epoch of some very comprehensive generalization. The physical discovery of the 20th century, so far, is the electrical theory of matter. This is the great new theory of our times, it was referred to, in the philosophical aspect, by Mr. Baltons in his pressidential address at Cambridge in 1915. We pressidential address at Cambridge in 1915. We proposly, it has still to catable to contemplate the still address at the catable that in some form or other it will prove from.

The theory is bond to have carrons consequence, and strady that contributed to some of the up rooting and uncertainty that I speak of For it the tree every material interaction will be it to be the server of the

Difficulty of Observing the Æther of Space.

It is the extreme ompipresence and uniformity and nureraal agency of the m'her of space that makes it so difficult to observe To observe anything you must have differences If all actions at a distance are conducted at the same rate through the mther, the travel of none of them can be observed. Find something not conveyed by the m'her and there is a chance. But then every physical action is transmitted by the m'her, and in every case by means of its transverse or radiation like activity Except perhaps gravitation That may give us a clue some day, but at present we have not been able to detect its speed of transmission at all. No plan has been devised for measuring it. Nothing short of the crestion or destruction of matter seems likely to serve creation or destruction of the gravitational unit, whether it he an atom or an electron or whatever it is Most likely the unit of weight is an electron, just as the unit of mass is The so-called non Newtonian mechanics, with mass and shape a function of velocity, is an immediate consequence of the electrical theory of matter The electrical theory of matter is a positive achievement, and has positive results. By its aid we make experiments which throw light upon the relation between matter and the ether of space The principle of relativity, which seeks to replace it, is a principle of negation, a negative proposition, a statement that observation of certain facis can never be made, a denial of aur relation batween matter and wther, a virtual denial that the mther exists Whereas if we admit the real changes that go on by reason of rapid motion, a whole field is open for discovery, it is even possible to investigate the changes in shape of an election-appallingly minute though it is as it approaches the speed of light, and properties belonging to the mther of space, evasive though it be, cannot lag far behind.

THE FOUNDATION OF MATERIAL CONTINUES.

Speaking as physical I must claim the either as pocularly one own down. The stoly of molecules we share with down on the stoly of molecules we share with thomas and mailer in it a various forms is navestigated by all most one stoleness, but a study of the culture of speak belongs to physica only I am not alone in festing the factoristic of this portionise entity. Its current of states and unifying permanents, and the study of the states and unifying permanents and parameters of the study of the

The subset of space is at least the great engine of continuity. It may be much more, for without it there could hardly be a material universe at all. Certainly, however, it is essential to continuity; it is the one all-permesting substance that hinds the whole of the particles of matter together. It is the uniting and binding medium without which, if matter could exist at all, it could exist only as chaotic and is not be universal undition of communication between world and particles. And yet it is possible for people to deep vill services on the constant of the contract of the contr

LIMITATION OF PHYSICAL SCIENCE.

I hold that science is incompetent to make compreheavier denial, even about the ether, and that it goes wrong when it makes the altempt. Science should not deal in negations; it is strong in affirmations, but wothing based on abstraction ought to present to draw of the strong in its property of the strong of the strong of the ignored by one branch of science may be taken into consideration by another.

I observe that by some critics I have been called a vitalist, and in a sense I am; but I am not a vitalist if vitalism means an appeal to an undefined "vital force" (an objectionable term I have never thought of using) as against the laws of chemistry and physics. Those laws must be aupplemented, but need by no means be superneded. The business of science is to trace out their mode of action everywhere, as far and as fully as possible; and it is a true instinct which rescuts the mediaval practice of freely introducing spiritual and unknown causes into working science. In science an appeal to occult qualities must be illegitimate, and be a barrier to experiment and research generally; as, when anything is called an act of God-and when no more is said. The occurrence is left unexplained. As au ultimate, statement such a phrase may be not only true but universal in its application. But

there are always proximate explanations which may be looked for and discovered with patience. So, lightning, earthquakes, and other portents are reflected to nateral causes. No ultimate explanation is ever attained by science; proximate explanations only. They are what it exists for jand it is the business of scientification of the series of app to vital force would be absord, it would be giving up the problem and stating nothing at the remarkable and surprising effect is discoverable and surprising effects and surprising effect is discoverable and surprisin

THE SCREEPHYSICAL ELEMENT IN LIFE.

As is well known, there are more than a few biologists who, when taking a broad survey of their subject, clearly perceive and teach that, before all the actions of live things are fully explained, some bitherto excluded causes most be postulated. Ever since the time of J. R. Mayer it has been becoming more and more certain that, as regards performance of work, a living thing obeys the laws of physics, like everything else; but undoubtedly it initiates processes and produces results that without it could not have occurred-from a bird's nest to a honeycomb, from a deal-box to a warship, The behaviour of a ship firing shot and shell is explicable in terms of energy, but the discrimingtion which it exercises between friend and foe is not so explicable. There is plenty of physics and chemistry and mechanics about every vital action, but for a complete understanding of it something beyond physics and chemistry is needed. And life introduces an incalculable element. The vagaries of a fire or a cyclone could all be predicted by Laplace's calculator. given the initial positions, velocities, and the law of acceleration of the molecules; but no mathematicien could calculate the orbit of a common house-fly. A physicist into whose galvanometer a spider had crept would be liable to get phenomana of a kind quite inexplicable, until he discovered the supernatural, i. c., literally superphysical cause. I will risk the assertion that life introduces something incalculable and purpaseful amid the laws of physics; it thus distinctly supplements those laws, though it leaves them otherwise procisely as they were and obeys them all.

We see only its effect, we do not see life, itself. Conversion of inorganic into organic is effected always by living organisms. The conversion under those conditions certainly occurr, and the process may be studied. Life appears necessary to the conversion, which clearly takes place under the guidance of life though in itself it is a physical and chemical process. Many laboratory conversions take place under the guidance of life, and, but for the experimenter, would not have occurred.

Again, pitrefaction, and fermectation, and purification of revers, and desars, are not purply and solely chemical processes. Chemical processes they are, but large year initiated and consident by they are, but large year initiated and consident by they are, but large years are all they are purply and they are purply and they are proposed belong the earth beathing that they compared to year, philosoph sing bolongues should not attempt to give their science away to perfect the process of the proces

SCIENCE AND SUPERSTITION.

Scientific men are hostile to seperatition, and rightly so, for a great many popular apperatations are both annoying and contemptible; yet coca sionally the term may be wrongly applied to practices of which the theory is unknown a superficial observer some of the practices of biologists themselves toust appear grossly super stitions To combat malaria Sir Ronald Ross does not indeed erect an altar , no, he oils a pond -making libation to its presiding genii What can be more ludicrous than the corious and evidently savage ritual, insisted on by United States officers at that hygienically splendid achievement, the Panama Canal- he ritual of punching a hole in every discarded tin, with the object of keeping off disease ! What more absurd. sgain-in superfic al appearance-than the practice of burning or poisoning a soil to make it extra fertile? What appears to be quite cartain se that there can be no terrestrial manifestation of life without matter. Hence naturally they say, or they approve such sayings as, " I discern in matter the promise and potency of all forms of hie" Of all terresiral manifestations of his. How else could it manifest itself save through matter P "I delect nothing in the organism but the laws of chemistry and physics" at as said Very well naturally enough is what they are after, they are studying the physical and chemical aspects or manifestations of life. But life staelf-life and mind and consciousness—they are not studying, and they exclude them from their purview. Matter is what appeals to our senses here and now , materialism

is appropriate to the meteral world; not as a photosoph but as a working creed, as protion and the second of the s

LIFE AND MIND,

But although life and mind may be excluded from physiology, they are not excluded from science Of course not It is not reasonable to say that things necessarily slude investigation merely because we do not knock against them Yet the mistake is sometimes made. The either makes no appeal to sense, therefore some are beginning to say that it does not exist occasionally put into the same predicament Life is not detected in the laboratory, save in its physical and chemical manifestations, but we may have to admit that it guides processes nevertheless It may be called a catalytic agent. To understand the action of life itself, the simplest plan is not to think of a microscopic organism or any unfamiliar animal, but to make use of our own experience as living beings. Any positive instance serves to stem a comprehensive denist, and if the reality of mind and guidance and plan is denied because they make no appeal to sense, then think how the world would appear to an observer to whom existence of men was unknown and undiscoverable, while yet all the laws and activities of nature went on as they do now Suppose then that man made no appeal to the senses of an observer of this planet Suppose an outside observer could see all the events occurring in the world save only that he could not see animals or men He would describe what he taw much as we have to describe the activities initiated by one

If he looked at the Firth of Forth, for instance, he would see piers are mig in the water, beginning to sproot, reaching across in strange manner till they actually non or are pound by poses attracted for from below to complies the excell (a cold or creat round the current could not come to complie the excell (a cold dee a soft heavy to the complient of the cold dee a soft heavy to the cold deep and deep a soft heavy to the cold deep and deep a soft heavy to the cold deep and deep and deep a soft heavy to the cold deep and dee

Or let him look at the Nile, and recognize the mentorious character of that river in promoting the growth of vegetation in the desert. They let him see a kind of untoward crystallization growing across and beginning to dam the beneficent stream. Blocks fly to their places by some kind of polar forces : " we cannot doubt" that it is by belig or other tronism. There is no need to co outside the laws of mechanics and physics, there is no difficulty about supply of energy-none whatever-materials in tin cans are consumed which amply account for all the energy; and all the laws of physics are obeyed. The absence of any design, too, is manifest : for the effect of the structure is to flood an area up-stream which might bave been useful, and to submerge a structure of some beauty: while down stream its effect is likely to be worse, for it would block the course of the river and waste it on the desert, were it not that fortunately some leaks develop and a sufficient supply still goes down-gres down in fact more equably than before : so that the ultimate result is beneficial to vegetation, and simulates intention.

Tor EVIDENCE OF Design.

If told concerning either of these structures that an engineer, a designer in London, called Benjamin Baker, had anything to do with it the idea would be preposterous. One conclusive argument is final against such a superstitions hypothesis-he is not there, and a thing plainly cannot act where it is not. But although we, with our greater advantages, perceive that the right solution for such an observer would be the recognition of some unknown agency or agent, it must be admitted that an explanation in terms of a vague entity called vital force would be useless, and might be so worded as to be misleading; whereas a statement in terms of mechanics and physics could be clear and definite and true as far as it went, though it must necessarily be incomplete. And note that what we observe, in such understood cases, is an interaction of mind and matter : not parallelism nor epiphenomenalism nor anything strained or difficult, but a straightforward utilization of the properties of matter and energy for purposes conceived in the mind, and executed by muscles guided by acts of will. But, it will be said, this is unfair, for we know that there is design in the Forth Bridge or the Nile Dam : we have seen the plans and understand the agencies at work : we know that it was conceived and guided by life and mind; it is unfair to quote this as though it could simulate an automatic

Not at all, say the extreme school of biologists whom I am criticizing, or ought to say if they were consistent, there is nothing but chemistry and physics at work anywher; and the mental activity apparently demonstrated by those structures is only an illusion, an epiphenomenon; the laws of chemitry and physics are supremy and they are sufficient to account for everything! Well, they account for things up to a point; they secount for things up to a point; they secount in part for the colour of a surect, for the unjesty of a sountsin peak, for the glory of animate existence. But do they account for our everything completely? Do they account for our own festing of joy and exaltation, for our cown festing of joy and exaltation, for our senses of heavity, for the manifest beauty existing throughout nature? Do not these things suggest something higher and noble and more joyous, something for the sake of which all the struggle for existence goes on?

DEEPER MEANINGS IN NATURAL ORIECTS.

Surely there must be a deeper meaning involved in natural objects. Orthodox explanations are only partial though true as far as they go When we essuine each particoloured pranule in a peacock's tail, or hair in a zebra's hide, and realize that the varying shades on each are so placed as to contribute to the general design and pattern, it becomes exceedingly difficult to explain how this organized co-operation of parts, this harmonious distribution of pigment cells has come about on merely mechanical principles. It would be as easy to explain the sprouting of the cantilevers of the Forth Bridge from its piers, or the flocking of the stones of the Nile Dam by chemiotaxis. Flowers attract insects for fertilization; and fruits tempt animals to eat them in order to carry seeds. But these explanations cannot be final. We have still to explain the insects. So much beauty cannot be necessary merely to attract their attention. We have further to explain this competitive striving towards life. Why do things struggle to exist? Sorely the effort must have some significance, the development some aim. We thus reach the problem of existence itself, and the meaning of evolution.

The mechanism whereby existence extrenches itself is manufest, or at least has been to a large-extent extent of the state has been to a large-extent extent of the state of th

we gibbet ourselves as ludicrously narrow pedants, and are falling far short of the richness and fulness of our burnan birthright How far preferable is the reverent att tude of the Eastern poet -

"The world with eyes bent upon thy feet stands in awe with all its eilent stars"

Superficially and physically we are very limited Our sense organs are adapted to the observation of matter, and nothing else directly appeals to us Our nerve muscle system is adapted to the production of motion in matter, in desired ways , and nothing else in the material world can we accom-Our brain and nerve systems connect us with the rest of the physical world Our senses give us information about the movements and ar rangements of matter Our muscles enable us to produce changes in those distributions. That is our equipment for human life, and human history as a record of what we have done with these parsimontous privileges

TEMPORAL CONTINUITY IN EVOLUTION

But if we have learnt from science that evolution is real, we have learnt a great deal I must not venture to philosophiz", but certainly from the point of view of science evolution is a great reality burely evolution is not an illusion, surely the universe progresses in time. Time and space and matter are abstractions, but are none the less real . they are data given by experience and time is the keystone of evolution 'Ine centuries follow each other, perfecting a small wild flower " abstract from living moving reality a certain static aspect, and we call it matter, we abstract the element of progressiveness, and we call it time When there two abstractions combine, co-operate, interact, we get reality again It is like Poynting's theorem The only way to refute or confuse the theory of evolution is to introduce the subjectivity of time That theory involves the reality of time, and it is in this sense that Professor Bergson uses the great phrase " Creative evolution "

I see the whole of material existence as a steady passage from past to future, only the single instant which we call the present being actual. The past as not non existent, however, it is stored in our memories, there is a record of it in matter, and the present, is based upon , the future is the outcome of the present, and is the product of erolution.

Existence is like the putput from a local. The pattern, the design for the wearing, is in some sort "there" already, but whereas our looms are mere machines, once the guiding cards have been fed into them, the Loom of Time is compli-

cated by a multitude of free agents who can modify the web, making the product more beautiful or more ugly according as they are in harmons or disbarmony with the general scheme I venture to maintain that manifest imperfections are thus accounted for, and that freedom could be given on no other terms, nor at any less cost ability thus to work for weal or wee is no illusion, it is a reality, a responsible power which con scious agents possess, wherefore the resulting fabric is not something pre-ordained and inexerable, thou h by wide knowledge of character it may be inferred. Nothing is inexorable except the autform progress of time, the cloth must be woven, but the pattern is not wholly fixed and mechanically calculable.

Where inorganic matter alone is concerned there everything is determined Wherever full consciousness has entered new powers arise, and the faculties and desires of the conscious parts of the scheme have an effect apon the whole. It is not guided from outside but from within, and the guiding power is immanent at every instant Of this guiding power we are a small, but not wholl? insignificant, portion

That evolutionary progress is real is a doctribe of profound significance, and our efforts at social betterment are justified because we are a part of the scheme, a part, that has become conscious, part that realizes dimly at any rate, what it is doing and what it is aiming at planning and aiming are therefore not absent from the whole, for we are a part of the whole, and are conscious of them in ourselves

DOINGCE AND PATCHTCAL RESERVE.

Either we are immortal beings or we are not We may not know our deating, but we must have a destiny of some sort. Those who make denials are just as likely to be wrong as those who make assertions , in fact, denials are assertious, thrown into negative form Scientific men are locked up to as authorities, and should be careful not to Science may not be able to reveal haman destiny, but it certainly should not obscure it. Things are as they are, whether we find them out or not, and if we make reah and false statements, posterity will detect usposterity ever troubles its head about us, I au one of those who think that the methods science are not so limited in their scope as ha been thought, that they can be applied mucmore widely, and that the psychic region can be studied and brought noder few too. Allow anyhow to make the attempt. Give us a fair field Let those who prefer the materialistic hypothes

by all means develop their thesis as far as they can; but let astry what we can do in the psychical region and see which wiss. Our methods are really the same as theirs—the subject-matter differs. Neither should abase the other for making the attempt.

Although I am speaking ex cathedrs, as one of the representatives of orthodox science. I will not shrink from a personal note sommarizing the result on my own mind of 30 years' experience of psychical research, began without predilection -indeed, with the usual hostile prejudice. This is not the place to enter into details or to discuss facts scorned by orthodox science, but I cannot belo remembering that an atterance from this chair is no ephemeral production, for it remains to be criticized by generations yet unborn, whose knowledge most inevitably be fuller and wider than our own, Your President, therefore, should not be completely bound by the shackles of present-day orthodoxy, nor limited to beliefs fashionable at the time.

"PERSONALITY PERSISTS BEYOND BUDILY DEATH."

In justice to myself and my co-workers I must lisk appoying my present bearers, not only by leaving on record our conviction that occurrences now regarded as occult can be examined and reduced to order by the unthods of science carefully and persistently applied, but by going further and saying, with the utmost brevity, that already the facts so examined have convinced me that memory and affection are not limited to that association with matter by which alone they can manifest themselves here and now, and that personality persists beyond bodily death. The evidence to my mind goes to prove that discarnate intelligence, under certain conditions, may interact with us on the material side, thus indirectly coming within our scientific ken; and that gradually we may hope to attain some understanding of the nature of a larger. perhaps wtherial, existence and of the conditions regulating intercourse across the chasm. A body of responsible investigators has even now lauded on the treacherous but promising shores of a new continent. Yes, and there is more to say than that. The methods of science are not the only way, though they are our way, of being piloted to truth. "Uno iliners non polest perveniri at tam grande secretum."

PROPERTS OF A NEW ERA.

Many scientific men etill feel in pagnacious mood towards theology, because of the casggerated dogmatism which our predecessurs encountered and overcame in the past. They had to struggle for freedom to find truth in their own way; but the struggle was a misstable necessity and bas left some svil effects. And one of them is this lack of sympathy, this occasional bostility, to other more spiritual forms of truth. We cannot really and seriously suppose that truth began to arrive on this planet a few centuries ago. The pre-scientific insight of genius-of poets and prophets and saints-was of supreme value, and the access of those ipenired seers to the heart of the universe was profound. But the camp followers, the Scribes and Pharisses, by whatever name they may be called, had no such insight, only a vicious or a foolish obstinacy; and the prophets of a new era were stoned.

Now at last we of the new cra have been victors, and the selences are in our hands; but for us to matter the old ecclesiastical attitude would be folly. Let up not fall into the old mixthe of thinking that ours is the only way of exploring the multisations depths of the nuirers and that all others are worthless and mixtheen. The universe is alarger thing than we have any conception of, and no one method of search will exhaust in treasures. Men and brether, we are trustees of the truth of the physical universe as scientifically archored it set as he faithful to our trust.

Genuine religion has its roots deep down in the heart of humanity and in the reality of things. It is not surprising that by our methods we fail tograph it the actions of the Duity make no appeal to any special sense, only a universal appeal, and our methods are, as we know, incompetent to detect complete smilormity. There is a principle of relativity here, and onless we encounter flaw or jet or change, nothing in an respond; we are deaf and blind, therfore, but him meaning number around a blind, therfore, but him meaning number around a blind, there is no the immeaning number around a state of the second of th

EDUCATION IN THE MAGAZINES

Enlightened Educational Policy.

His Excellency the Viceroy spoke as follows in rejly to the speech of His Highness the Maharajah of Mysore during His Excellency's stay at Mysore—

I must congratulate Your Highness upon your enlightened educational policy Under your fos tering care education is making rapid progress and springing from the Annual Conference of 1911. Your Government have recently sanctioned a generous programme which includes provision for a large extension of primary education measur es to supply teachers possessed of higher qualing cations, increased grants for female education and an experimental hoarding house for Panchamas at Mysors. At the same time a special committee assen bled in 1910 to consider the improvement of industrial education is bearing fruit in schemes for a Technical Institute at Mysore, and a Mecha nical Engineering School and a Commercial School at Bangalore where progress will be made on tentative lines I am glad that the vexed question of the revenues of the assigned tracts was last year decided and I am sure that it must be a source of satisfaction to Your Highness to have arrived at a settlement. The more so as an examination of the then accounts show, I understand. a balance due to the Durbar of nearly 40 lakes of Hupers It is hardly necessary for me to speak of the relations between the Government of India and the Mysore Durbar They have always been intimate and friendly and their harmony will. I am confident, never be disturbed, certainly so long as Your Highness is on the Gads and has, as Resident, an officer of Sir Hugh Daly's wisdom and sympathy.

Education in Mysore

At the Mysore Dasara Representative Assem bly the Dawan delivered an address in the course of which he said:—

The year was one of more than usual activity in educational matters Dealing first with the ordinary progress of education, the number of public and private institutions norreade by 20 and the attordance by 7,226. The perceivage of Days at school to the male peoplation of school agrees from 30 I to 313 and that of guite at school to the final peoplation of school agrees from 50 I to 313 and that of guite at school to the final peoplation of school agrees from 54 to 58. The number of papils under instruc-tion is comparison with the population of the

State gives a percentage of 29 A great dedication in the State. A special guarat pedication in the State. A special guarat of two lakes and a lail—one lake for opening now Finney Schools and improving the existing ones and a laik and a bail for the construction of Village alake and a bail for the construction of Village percentage and a similar special grant of 22 lakes have been sacationed in connection with the corresponding to the responsibility reating upon it for giving the state by the percentage of the state of the percentage of the state of the state

With regard to higher education, further arrangements were in progress to complete the equipment and the staff required for the two Firstgrade Colleges to sdays them to the new University Bugulations. The Gentral College was a lated to Dranon The College was a lated to Dranon The Budgulations and the College was a lated to Dranon The Budgulations and the College was a lated to the college was a lated to Dranon The College was a lated to the college was a lated to Dranon The College was a lated to the college was a secommodation for the classes concerned to

Government have under consideration the question of opening Honours Courses for both the First grade Colleges in certain branches in the near fators.

A comprehensive achons of alementary and advanced Technical and Commercial education has been approved by Government and it consists in the main of the establishment of the Camerical and Archael Insistince as 3 Hypersensial Commercial and Archael Insistince as 3 Hypersensial Commercial and Archael Insistince Sequencing School commercial and Archael Engineering School and the Industrial School at Mysore will be combined to form the nucleus of the new Observation of the Commercial School and Mysore will be combined to form the nucleus of the new Observation of the Commercial School and Mysore will be commercial to the new Observation of the New Observation of

mercial School Section and the Workshop ...
Lassons according to the prescribed carnicolar
are bring regularly given under the scheme of
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Norember 1003. After nearly five years experisecent is said identition to may what real selection
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subject is to the hands of capable teachers the
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scheme of the to interest and to become more or

less stereotyped. The question has to be further discussed as to whether in the long run it is not wiser to leave this branch of education to the parents and communities concerned.

In view of the growing educational activities of the State and the need that is felt to ensure that the increased grants given are utilized to the best advantage the appointment of a Daputy Insector-General of Education has been sanctioned. This officer will be entrated with the direct charge of Vernacular education, both Elementary and Scondary, in the State.

The University and the State-

There was a very large attendance at the meeting of the Education Section of the British
Association on September 12th, when the
general subject under consideration was "The
Function of the Modern University in the State"
Principal Griffithe presided.

Sir Alfred Hopkinson, who opened the discussion, referred to the great change in the relationabip of the Universities to the State during the last 40 years. Oxford and Cambridge were practically the only Universities of the country 40 years ago, and it was striking to see the enormous growth which had taken place since then. There was an idea that the Universities then were not in close relationship to the State. It was perfectly true that the State made no grants for their support and in no way interfered with the management, except by occasionally appointing Commissions, but there was really the very closest relationship. Those who were responsible for the government of the country were practically drawn from the two Universities. as were the permanent officials, When an important post in the Colonies was to be filled. it was as likely as not that the Minister of State sent to the Master of Balliol and said, " Send me a good man." A man who was forming his Cabinet knew what stuff the man he was inviting was made of, and he did not want to see the old eystem entirely done away with in a horry. In the same way the Clergy, the Judges, and the Press were then very largely supplied from the old Universities. That state of things had altered, but he doubted whether it would ever entirely disappear, and he did not think it would be an advantage if it did. Two great new factors had appeared in the last 40 years, the fastness of the growth of Universities in the big centres of population and the advancement of the democratic movement. At the present moment, though it was not so originally, the main differentiation

between the newer and the older Universities was not that they studied different subjects or that one was of a higher or a lower type, but that the modern once were in receipt of State aid at the present time. The position of receiving large State aid introduced an entirely new element.

He took it that the function of the University was threefold. Forty years ago the object put before the tutors of the colleges was to raise un a due supply of persons fitted to serve in Church and State. That was the first and foremost function. The second object-and that was especially the work of the Universities in great centres of population-was not to shut up their influence simply to those who were their students. but as far as possible to be centres from which certain ideals would be put forward and certain interests stimulated in the whole of the community in which they were placed. He was not one who despised popular lectures, and he honed that their influence would extend. He honed that the Universities in fixing their course of studies-and he spoke with greater freedom than he would have ventured to do a few months ago-would remember that their object was not so much the training of specialists as of the cultivated merchant or manufacturer who would have a knowledge of the subject and would also bave some interest in the life which was quite remote from his ordinary business. The third function was the actual adding to knowledge, and he believed that nothing was more fruitful than that the experienced mind should be brought into contact with the young active mind. They must get rid of that most pestilential herery of all that existed, that the University was a thing founded to give degrees. He recognized that they were a necessity, but he believed that they were originally invented to stimulate people to work at a time of life when corporal punishment was no longer possible. Let them get sid of the idea that the University professor ought to spend half his time and all his temper on discussing what the degree regulations should be and in altering them from time to time. He hoped that they would always see some representatives of State Departments on the boards of the moderen University, for that was all to the good. As repards the relations of the Universities to Parliament, nobody who had anything to do with public life could bely recognizing the enormous advantage of University representation in Parliament. There might be reasons for altering it, but they appealed to a different type of mind from his. The State now recognized the need for financial assistance, and successive Chancellors

of the Eschequer had seted wearly and luterally not a hoped by the d adopted. They had not made big grants as first. Such grants would have been wated, and a system of progressive behaviors and the second of the second second

Education of Women

The anniversary and prize distribution of the Overmone Guris' School, Gunter, was held in the College Hell, on the Sid instant under the presidency of Mrs. Roy Mrs. Rheening, Inspectress of Schools Northern Circle, delivered in interesting address on the "Education of Women," in the course of which she said.—

The duty of emancipation of women lies at your very door, it is your first duty, an impera tive call, that takes no denial It is the Lev to national development. Development cannot be one sided, confined to one sex alone. A nation that has produced a Pegond has also given birth to a Madame Carse Two famous novelists, one English, the other American, have written novels, having for motive the principle that a system founded on the subjection of women is doomed to perish. Every impulse of manhood in you must respond to the appeal to give your women the best possible. There is a fund of postical feeling in your people, it finds expres sion here and there in the poems of a Toru Dutt. a Sarojini Naidu, a Rabindranath Tagore Does it not help you to picture married life, raised above the plane of expediency and custom to a height where the cultured woman of trained intelligence shares her husband's life in every phase ? Such a companionship sanctifies the marriage tis. Again the character of a woman is a valuable asset in the training of her children, and character is the product of education and experience. I have a strong belief in personal application for driving home a truth, and in illustration of my meaning, I will tell you an incident that made a strong impression upon me Some years ago I was staying with a lady who had a small son of about 3. On one occasion the child was playing on the verandah at middey thoroughly engrossed in his game when the

whietle of an approaching train sounded and almost immediately the child barst into tears and rushed to his mother A soothing word or two effectually consoled him, and he was carried off by the servant to his mid day rest The lady explained afterwards that the whistle of the train was the signal agreed upon for the cessation of play and the mid day sleep. The training the child was thereby receiving was invalaable. To say nothing of regularity of habit, there was the acceptance without demor after the first involuntary outburst of his mother's wish and the lesson to place inclination second to duty The fundamental bases of character being the same prespective of caste, creed, colour, may this teak of moulding a child a character be entrusted to a child mother? I have touched on the attitude of the husband and the peril of the child, tle life of the wife and the mother with its meagre outlook, its limited scope, the negation of the development of the natural powers may best be described in the sweet language of your own portess, she lives " with all her blossoming hopes unbarrested, her joys ungarnesed, and her songs unsang" I remember yesis ago reading an extract from a French book in which the writer anticipating Herbert Spencer a idea of a punishment to suit the offence draw on these lines picture of the torments that awaited the onregenerate To take one case, Nero, whom History has accredited with the heartlessness of fidding when Rome was burning has to expiate his sins in the next world as a blind fiddler begging from door to door. Given the powers of Plato, what panishment to suit the offence would one be tempted to mete out to the intellectual Indian of the day? Why ' he should be placed behind a purdah. No. he should be bolted and barred within with the pote and page and be given for mental sustenance, Marsden's Fourth Reader! while his women folk should be lifted to the Seventh Heaven of the realisation of the joys denied them on earth Bat I will not leave you with this gloomy outlook for yourselves You shall believe with me to a new India where the social fabric will be reconstructed on the loom of a common humanity, the warp and woof shall be equal opportunities, equal rights, equal privileges for man and woman alike Give the woman the opportunities for intellectual attaument equal in degree if not in quality to that of man, let her emerge from her position of social maignificance, enlarge the range of her activities, and the guft reacting upon the giver will result in a fullness of life for him hitherto undreams of

[&]quot;Yet in the long years closer must they grow, The man be more of woman, she of man,

He gain sweetness and in moral height. Nor lose the wrestling thews that throw; She mental breath, nor fail in childward care, Nor lose the childlike in the larger mind; I'll at the last she set herself to man,

Like perfect music unto noble words." The Calcutta University. Mr. C. C. Ghose's Opinion.

Mr. C. C. Ghose writes as follows to the "Nation":-

I crave the hospitality of your columns to draw the attention of the English public, and especially of the educational world here, to an urgent matter of definite public importance in Bengal which has arisen within the last few months—namely the policy that is being followed by the Government of India, to its Education Denartment, towards the University of Calcutts.

The Indian Universities Act of 1904 passed by Lord Curzon's Government, enunciated the ideal to which the existing Universities were to come un-namely that they were to cease to be merely examining bodies and convert themselves into teaching Universities. The policy enunciated by the Government of that day and embodied in the Universities Act of 1904 has been religiously followed by the Calcutta University. Since 1904. the University of Calcutta, under the leadership of its distinguished Vice-Chancellor, Sir Ashutosh Mookerjee has established several chairs—namely the Minto Professorship of Economics. the George the Fifth Professorship of Philosophy, the Hardinge Professorship of Applied Mathemstics, the Carmichael Professorship of Ancient Indian History, and is about to establish the Palit Professorships of Physics and Chemistry. Applied Mathematics and Botany, The Calcutta University has also been able since 1904 to institute various courses of lectures by such distinguished scholars as Professor Schuster, Professor Hermann Jacobi Professor Hermann Oldenberg, Professor Andrew Russell Forsyth, and we in Calcutta are looking forward to listening, in the near future to Dr. Paul Vinogradoff, Monsieur Sylvain Lavy and Dr. Otto Strans, of the University of Kiel. The Government of India, in its Education Department, however, are apparently appalled at the adherence of the University to the terms of the Statute of 1904, and their policy as far as one can make out at the present moment is to break up the colder-Universities like Calcutta by a process of starvation (the Government of India, in its Education Department have refeased to contribute any large arms of money towards the catabiliament of the recently proposed University College of Science in Calcutata, and to establish new ones in the provincial towar, where in the nature of things the decreas promulgated by the Criti Service from time to time would in all probability be registered times to time would in all probability be registered times and not asphoted to that searching criticism of official acts which had hitherto proceeded from the University of Calcutts.

In the second place public opinion in Bengal has recently been startled by the proposal of the Government to abolish the Matriculation or Entrance examination of the University of Calcutta -an examination which had since 1857 been controlled by the University only-and to replace it by a School Final which is not to be controlled by the University but by the Government Education Department. This would and could only mean that only such schools as the Government chose from time to time could prepare students for admission to the University and that the Government would practically and in actual practice, appoint the schoolmaster-that is to say instead of a swall modicum of liberty being allowed to Indians in the very important matter of the education of their boys and girls, the existing privileges such as they are, are to be taken away.

The proposal has caused the most widespread alarm in Bennal and it is reasonably certain that. unless the Government very largely modifies the scheme, there will be a tremendous agitation in Bengal, as loud and as vigorous if not more so, as the agitation against Lord Corzon's Partition of Bengal. What Bengal wanted and prayed of the English people was to be left alone for a number of years. We have just passed through the throes of an acute agitation and we would beg of the English people and of their agents in India, to be left in peace, and to be allowed to develop the education of our boys and girls on normal lines. If England granted that prayer such progress would be made in Bengal as would rejoice the heart of every true Liberal and of everyone who takes a just pride in India,

(FOREIGE)

Indian Students in America.

The careful attention of students in India is drawn to the following points by the Bulletin of

the Hindusthan Association, U. S. A.:—

(1) There are nearly 20 first class institutions in the U. S. A. equal to the best in the world

which teck Literatore, Att. Economics (theoretical and applied). Seemon of Government, Scondey (theoretical and applied). Seemon of Government, Scondey (theoretical and applied). Education, all the Pars Scences and the Applied Scence, this all branches of segmenting, medicane and surgery, sgrinditre, chemistry, physics, etc., in fast, all branches of human knowledge. The equipment of laboratories and thismaters in nearly all of these scomplets, to be found only in some of the best. Universities of Burney. There are many technical schools and colleges where practical and theoretical transmissions of the seed of

(2) Graduates in the scence courses of the Indata Universities will find been inhursted on portunities for practical training and research work in the laboratories which they can never find in India and only with much expense in Europe. After graduating from here they can for the properties of the properties of the convarious experimental skewnood as assentiate in various experimental skewnood as season of the properties of the propert

(3) Graduates of Indian Universities who have studied systematically the history, philosophy, art, literature, and civilization of India, can find opportunities as lecturers and professors in the American Universities and will thus be doing an immense service to both the countries.

(4) No one should come to America as a statent unless that passed the Marricaltanu examination in India and he should then be required to study in the high rebools of America the University To be able to outer to enter the University To be able to outer to enter the University To be able to outer to enter the University To be able to outer to enter the University and parase their studies with satisfaction, saidents much have passed the Intermediate examination (First Arty) in India or at Issue have examination (First Arty) in India or at Issue have anything to come who does not should be applied to come who does not good character.

(5) Bell support is possible all throughout the country, but it a difficult, though not unpossible to work sad go to college at the same time. Only those that are reconcernful, energies bardworking, and extract can succeed. A few of our self supmoney of the control of th

(6) We would advise students intending to be

self supporting to have a practical knowledge of the following, before they start from India, carpentry, surveying, drafting, brick laying or plastering, which are well paid trades in America.

(7) No student without any sensus purpose should come to America. Life in America is no plain saling, but full of hard knocky. Neither is education or degrees easily obtanable. They will require just as hard and more consecutous works as in India, but with the difference that it will bring increasing interest in the work and power and faith in one's ability. Sentimental young men with exaggerated opinion of their powers should not come as students.

(8) Students, whether self supporting or otherwise, should have at least Rs. 350 to 400 with them when they land in America as they will be required to show Re. 150 to the immigration officers before they are allowed to land. It is advisable that they should have more money for expenses for at least four or five months. To avoid trouble we would adrise students to land in New York or in Seattle and between Europe to America or Japan to America they should travel second class. Information about steamers and rates can be obtained from the steamship offices in Calcutta and Bombay. Students should better bring their University certificates and also of the college of last attendance with mention of subjects studied. If the students should write to the local officers of our Association in advance, the name of the steamer and the date of arrival, they will arrange to meet them at the time of landing and belp them in all possible ways A little study of the map of America will be very helpful

(9) One of the main purposes of our Association is to help our fellow-students in India to come to American for education. The hearth of our experience we will be always give to extend to their purposes we will be always give to extend to their may come in larger numbers as there as room for thousands of our students in the schools and onlegge of American. The general Secretary will gladly formats all information about education in America.

English Literature in the Modern University. Sir Sidney Lee's Views

Sir Sidney Lee, who has been lately appointed by the Senate of the University of London to a new chair of English Language and Literature, delivered his inaugural lecture at East London College, where the Professorably is tenable. The chair was taken by Sir Cornelius Dalton. The following are extracts from the lecture:-

True literature had in matter and manner to stir intellectual or emotional interest, transcending any impression produced by the record of a liberal experience. It made a threefold appeal-to the mind, to the heart, and to the ear. Shakespeare's work was the greatest contribution to English literature. But the student would not wisely ignore any book which had been admitted by recognised authority to a permanent place in the scale of fame. The study of Euglish divided itself into four main branches-criticum, history, philology, and composition-all which asked for concurrent treatment. Criticism was at the root of the whole matter. The ultimate good derivable from the academic study of Euglish literature largely depended on the Protessor's practical interpretation of that chameleon-like term. Criticism of English literature was best defined as exegests'-the leading out of a book all that was in it. It embraced all means of throwing light on the text of a piece of writing and of drawing forth its full meaning; it examined the form, described the modes of composition, traced the sources of inapiration, showed the strength or weakness of the author's thought and feeling. It sought to secertain the true force and value of literary matter and manner. Room must always be lett in the fabric of literary study for the play of the student's individual taste and judgment. The reading of books should be a bracing exercise, a wrestling with ideas greater than any the student could create for himself. By the special student comparative triticism of literature could not be safely ignored. No great national literature ever subsisted without toreign nutrition. 'A people,' wrote Walter Pater, without intellectual commerce with other peoples' had never done anything conspicuous in literature. A piece of great literature was a mighty chain of which the links were forged in many workshops. In literary history, the second division of the study. they sought the external circumstances-political, social,economic-in which literature was produced. Laterary history co-ordinated the phenomena. It should be no skeleton of dates and names, no charnel-house of dry bones. It should be a thing of flesh and blood, a living guide to the practical expedience of the author and a moving picture of his environment. Philology deals with words, the raw materials of literature. It had all the characterestics of an exact science and had the same disciplinary value. It embraced every aspect of language, and included the study of phoneticsthe science of pronunciation which was a potent torce in the formation and wansformation of words. Turning to the last branch of literature the practice of composition—Sir Sidery had done the autom that no one wrote good English who had not read good English with appreciation and intelligence. Assimulation was a main element in effective literary composition. 'Ex nibito nibit' of It' was a pertinent maxim.

Originality usually meant the saying, in a more convincing, more impressive, more beautiful way. of something nearly resembling what had been said before. That conclusion applied not only to men of mediocre capacity, but to men of the highest genius : Shakespeare's work was an exemplification of it. R. L. Stevenson became a writer by playing the sedulons ape to Hazlitt, to Lamb, to Wordsworth, to Sir Thomas Browne, to Defoe, to Hawthorne.' Students should form the habit of drinking in the matter and manner of their author intuitively, instinctively, Impressive passages should be read aloud or committed to memory. The way in which paragraphs were built up should be carefully noted. The student should come in the light of his reading to realise that the merit of writing was proportioned to its simplicity, directness, good taste, and sincerity. Whatever one's walk in life, whether they became men of science or engaged in commerce or in work of administration, the power of writing well would always increase their efficiency and contribute to their success. Complaint was commonly made that, owing to defecte in their educational system, command of clear and pointed language was more parrrowly distributed in England than in other countries. It was sometimes alleged that Army officers, men of science, and schoolmasters could not write intelligible English. Buch defects, if true. might be remedied if every student devoted some part of his time to an intelligent study of great English literature. All great literatures held in solution the spirit of liberal culture, such as Universities exist to disseminate. But their own. literature now enjoyed a patent of precedence in the world at large. In France, Germany, Russia, and Italy it was reckoned to be a liberalising agent; it was hard to discute that English literature at an English University should fill a foremost place in the hierarchy of literary studies. It was to be hoped that special students would follow the stimulating examples of foreign students of English in foreign Universities and engage in original research. There was room for fresh labourers in the field, and the best proof of the Professor's success would be in the endeavour of one or more of his students to better his instruction and to make paths for themselves in unknown territory. The laboratory of the English student was the college library,

BATIOR STACE.

The student should have at band the best texts, edited on scholarly lines, of every author who had contributed to the nation's literary achievement. He should have, in addition, wise and pertinent comment and all treatises of philology and literary butory, which lent genuine help in interpretation, The test of a good commentary lay in its terseness and relevance, its value was in inverse ratio to its bulk. Up-to-date bibliographies were valuable implements of work At the same time, the student should seek to form a library of his own cheep reprints which abounded gave the student whose pecuniary resources were small the opportunity of accounting for himself the records of great thought, great ideas, great emotions In conclusion, Sir Sidney said that, apart from any purely academis aspect, literary sympathy and enthusiam made for human happiness, giving consolation in times of sorrow and adding xest to the entorment of good fortune. He held that academic training could stimulate the healthy growth of a love of right reading and even create it in those in whom it had not been implanted by environment hope was that in the succession of students who would graduate from East London College there would be many who would spread far and wide in the outer world the glad tidings of literature s

THE UNIVERSITIES.

CALCUTTA UNIVERSITY.

Special Meeting

A special meeting of the Senate was held at the Senate House, College Square, on Saturday, the 15th instant, to transact the following:—

- The Syndicate to recommend to the Senate that a Congratulatory Address be presented to His Excellency the Viceroy and Chancellor of the University on the occasion of his forthcoming visit to Calcula
- 2. The Syndicate to recommend to the Senate that a Special Convocation be held for conferring Honorary Degrees
- 3 The Syndicate to recommend to the Scuate that Honorary Degrees be conferred upon the following gentlemen on the ground, that by reason of emissat position and attainments, each of them is in their opinion, all and proper person to recove the dagree proposed to be conferred upon him in.

Dr. Paul Vinogradeff, M.A., DGL., LLD., Dr. Hiet., Dr. Jur FRA., Corpus Professor of Jurisprudence Oxford—Honorary Degree of Doctor of Law.

Dr Hermann Jabcobl, Ph D, Professor of Sanskitt in the University of Bonn-Honorary Degree of Doctor of Literature.

Dr. William Henry Young, NJ, PSc., PRS-, Hardings Professor of Mathematics—Honorary Degree of Ductor of Science.

Dr. Rashbibary Ghose, C st. CIE, WA, DI-

Mr Rabindranath Tagore-Honorary Degree of Doctor of Literature.

Mr Henry Herbert Hayden, C.I.E., B.A., B.E., F.G.S., Director, Geological Survey of India-Honorary Degree of Doctor of Science.

Dr Sylvain Levi, D Latt, Professor, College de France, Paris-Honorary Degree of Doctor of Laterature

Ordinary Meeting.

An ordinary meeting of the Senate was held at the Senate House, College Squere, on the 15th instant, immediately after the special meeting of the Senate to transact the following among many subjects of importance—

To recommend the appointment of Mr. C. I. Hamilton, M. A. to the Minto Professor of Economics for a term of five years on Mr. Bost Rel 12,000 a year, to recommend the most of the Stone, M. A. as Assessant Professor of English for five years on Mr. 750 a month, to recommend that Mr. P. Charitatti, M. A. be appointed at University Lecturer in Mental and Moral Philosophy for two years.

Dr William Henry Young.

Dr William Heary Young, the distinguished mathematician, who has accepted the post of Hardings Professor at Calcular University, has arrived in India and has been paying a short visit to Simia. He will lettors on mathematica of Calcular University during the ensuing cold weather.

PUNJAB UNIVERSITY.

The Board of Studies in History of the Pospik University decided on the 20 h October that the attendance of BA Honours students at the University Political Science Lectures should be optional, but that for MA attendance at all lectures should be compulsory and that a list of absentees should be forwarded to the Colleges

concerned. The lectures on Political Science will be given on Fridays at 6-30 F.M., at Forman Christian College, Lahore,

ALLAHABAD UNIVERSITY. O'DWIER MEDALS INAUGURATED.

Rai Bahadur Pandit Nand Lal, 18.0, has just sent through the Agent to the Governor-General in Central India a 31 per cent. Government promissory note for Rs. 1,800 to the Comptroller-General, Calcutts, who is the Tressurer of the Endowment Funds. This amount was subscribed by the people of the Indore Residency Bazzar to commemorate the memory of Sir Michael and Lady O'Dwyer for the deep interest they took in the cause of education. From the interest of this amount, a silver medal, styled the "Sir Michael O'Dwyer Medal," will be given every year to the boy of the Indore Residency School who stands first in the Matriculation examination of the Allahabad University, and the rest of the money will be utilized in giving a medal or prize for the girls of the Lady O'Dwyer Girls' School, Indore, which will be styled the " Lady O'Dwyer Medal or Prize,"

TECHNICAL EDUCATION

TYPEWRITER TOPICS.

Underwood Victorious in Typewriting

CONTESTS.

Miss Bessie Friedman, of New York, was the vinner of the professional typewriting championship context held at the business Exhibition at the Colisson in Chicago. Operating an Underwood typewriter, Miss Friedman beat her former record of 107 words per minute, by writing at the rate of 118 words to the minute for thirty minute.

Miss Besis Liosits, of St. Louis, won the championship of the Middle West by writing at the nest rate of 100 words per minuse, for thirty minutes. Miss Liosits also operated an Underwood machine. The Chicago city championship was won by Miss Wisilfred Kenna, operating of Underwood typewriter, at a net rate of 54 words per minute for a period of filtern minutes.

The typewriting contests were the chief attractions of the show and drew thousands of visitors to the Exhibition.

THE BIG L. C. SMITH BUSINESS BLOCK IN SEATTLE.

An important event in the typewriter world is the fact that the forty-two story L. C. Smith building at Scattle is nearing completion. This building at the highest in the world outside of New York City. Plans for it were started by Leman C. Smith, who, with his brothers, Merchant C. Smith, who, with his brothers, Merchant W. L., M. O., and H. W. Smith, founded the L. G. Smith & Brox. Typewriter Co. This building, will be the bone of the Scattle office of the J. G. Smith & Brox. Typewriter Co.

HEMINGTON NOTES.

The last number of Renington Note gires us an opportunity to say something highly complimentary the same property of the same property of the same property of the same property of the proper methods of typing thinked the same proper methods of typing thinked to the Answer of the proper methods of typing thinked to the proper methods of typing thinked to the same property of the same p

Type under Topier.

STATE SCHOLARANIPS,

It will be remembered that a Committee was appointed by the Secretary of State to enquire into the system of State Technical Scholarships established by the Government of India in 1904. The Committee, which comprised Sir Theodore Morsson (Chairman); Sir K. G. Gupta, Mr. J. H. Reynolds, Prof. W. E. Dalby, Mr. P. H. Dumbell (Secretary) and Mr. R. E. Field (Assistant Secretary), have submitted their report. The Committee held its first meeting at the India Office in May 1912 and then visited Glasgow, Leeds, Manchesterand Birmingham and recorded evidence. Altogether during the provincial meetings the Committee. took evidence from 75 witnesses, of whom 29 were professors and other representatives of the Univerestire and technical colleges, 28 gentlemen intimately connected with ratious industries as owners. and managers of works, etc., and 18 Indian technical students. Further evidence was recorded at the India Office in July of the same year when among others Sir B. N. Mookerjee, Sir D. J. Tata. Sir D. M. Hamilton, Mr. Ambalal Sarabhai and Dr. A. D. Denning were examined,

The Committee make the following general recommendations: Students sent to this country

should ordinarily have read in India up to the standard of the B Sc. or B.A. with science or have obtained an equivalent diploma, wherever possible students should be familiar in India with the industry which they are sent here to study They recommend elasticity in the system of selection, s.c. the principle of choosing the man rather than the industry. Local Governments should, in making selections, consult the business men and Directors of Industry in the province recommend training after selection period to be extended so as to include works experience. The method of securing works experience is a matter of continued organisation and dependent on the continued co-operation of British employers. 'Should the appeal to the patriotism of British manufacturers, write the Committee, ' meet with less response than we expect, it may prove possible to exercise influence through the Stores Department of the India Office."

The recommendations then deal with the question of the amount of encharting, rentinon in the trules for Government scholars, return to India within a specific period and measures for assisting returned scholars to secure employment. They recommend that a record be kept of the after-careers of Government scholars and regular reports be sent to the India Office.

The financial effect of the recommendations will be additional expenditure, but the Committee think it will be amply justified. They urge that only the clits should be trained at the public expense.

The general conclusions are stated as follows :---The results attained so far justify the continuation of the system of Government Technical Scholarships, and with the modifications which we have suggested the system may be expected to yield even better results in the future, but this expensive form of training at public cost should only be given to a well-chosen few who may reasonably be expected to help the industrial development of ladia. We recognise that the openings for such men are not at present numerous, and that the most argent demand of Indian industry at present is for skilled mechanics, and we are in complete sympathy with the efforts now being made for giving in India a better training to men of that class. But the necessity for educating the artisan does not preclude the desirability of having a limited number of men with the highest technological training, capable of holding posts of control. Both classes are needed for the development of ledish industry, and opportunities for the improjected of both should be given simultaneously. THE GOVERNMENT SCHOOL OF COMMERCE, CALICOR

The How'ble Sir Alfred Boorne, Director of Public Institution pad a supprise visit to the Government School of Commerce on the 23rd ultime, where he was received by Bao Shahi S Vydanatha lyer, the Headmaster, and taken before leaving, expressed himself very much pleased with the efficient working of the institution and has size asked the Headmaster to submit to him a scheme for recopening the special commercial resulting class in the solond from 13rd under 13rd himself with the school from 13rd himself with the s

CALCUITA SCHOOL OF COMMERCE.

Mr G K. Sen, officiating Principal of the Government Commercial Institute of Calcuthad gone to Bombay on deputation by the Government of Bengal to investigate the working of commercial schools and colleges of Bombay. He had a long internew with Mr. K. S JH-Honorary Principal of the newly-created Sydenham Commercial Institute.

Reviews and Hotices

THE GOSPEL OF ST. LUKE, EDITED BY J. F. BICHARDS AND T. WALKER. PRELIMITARY EDITION. (UNIVERSITY TUTORIAL PRESS.)

The editors have brought out a very useful and to Biblical study in that volume. The niter-duction is a mine of raliable information and those is hardly soything wanted by the student missed there. The summary and the maps are nonlewority fractures Now that such hardly we have the summary and the maps are nonlewority factors. We have the properties of the properties of the properties will be a situated to the properties of the masserprece by tudents of fluctures at the properties of the proper

BURKE'S THOUGHTS ON THE PRESENT DISCOULENTS, RUITED BY W. MURISON, M.A. (CAMBRIDGE UNIVERSITY PRESS) 2s, 6d

"It is a book always in season," says Andrew Lang, of Burke's Thoughts on the Present Discontents and we are plad to have such a handy edition as this by the Cambridge University Press. There is an unfortunate tendency on the part of the authorities of Indian Universities to avoid the writings of Burke as if they were dangerous in the extreme. There cannot be a greater blunder than this, for it deprives the Indian student of English literature of the privilege of reading one of the greatest of English writers, remarkable alike for his nobility of sentiments as well as logical coherence of thought. It is not only the students of History and Political Science that ought to go in for the book, the lay reader will find it sufficiently interesting and instructive to deserve his attention. Mr. Murison has brought together all the material necessary for a comprehensive understanding of the book. He has furnished the book with an introduction remarkable for its thoroughness and fullness of detail. May we suggest to the Cambridge University Press that the book may very well be cheaper?

The Preliminary Esclish Course, by A. M. Walmsley, M.A. (University Tutosial Press.)

This book is intended to meet the requirements of High School classes in the matter of the study of English Grammar and Composition. Two or three ralmble features of the book strike as a specially qualifying the book for the purpose for which it is intended. Grammar has not been readered unnecessarily complex; there is sufficient attention bestowed on its relation to the practical work of composition and there are a number of ralable scarcies.

THE CHILDREN'S ANTHOLOGY OF VERSE: JUNIOR, INTERMEDIATE AND SENIOR. (Machillian & Co., Ltd.) 4d.

Mears, Macmillan's Oslidero's Classics are working a reviolation in the literature provided for the young student at school. The books under review bring before the child a number of pieces of English poetry, particularly interesting as appealing to childhood. Quite successful attempt has been made to include only pieces of literary merits. The literature are considered attempt has been made to include only pieces of literary merits. The literature are presenting and the literature are presented as the control of the literature and non-dealight study in London schools. Act of the literature are non-dealight study in London schools.

The Continent of Europe, by Professor Lionel Lide. (Machillan & Co., Ltd.) 7s. 6d.

The suggestion was made by a distinguished Indian educationist a few years ago, that the applied of geography might very well claim aftention even in the College classes of our Universities. It was then felt in some quarters that the literature on the subject was not of a sufficiently high quality to merit being studied by students in the University classes. We confess a reading of Professor Lyde's book on Europe has convinced us of the great possibilities there are, of making it a subject of sufficient interest and prefulness to the College student. Professor Lyde is quite an authority on the subject on which he writes, and he has the most convincing theories of his own. on such questions as land-formation and so on. There are a very large number of mans and illustrations, intended to make the matter more vivid to the reader. We have nothing but praise for the clearness with which the materials have been arranged and for the thoroughness and grasp displayed by the writer. Dealing with the continent of Europe as a geographical entity, it was probably not possible for Professor Lyde to devote much attention to some of the more recent develcoments of industry and civilisation in the various countries. There is not in the book again any adequately descriptive writing of the great cities of Europe and places of interest in the various countries. Everything is subordinated to physical geography—but it is clear by the title. The Continent of Europe, the author did not intend anything else. We wish however the work had been made more comprehensive by a treatment of these aspects also. We have however no hesitation in saving that every teacher of the geography of Ecrope in this country must provide himself with a copy of this book,

1. Exercises in Logic, by F. C. Bartlett. (University Tutorial Press). 24.63,

 CHILD MIND, BY BENJAMIN DUNVILLE. (UNI-VERSITY TUTORIAL PRESS). 2s. 6d.

The "collection of exercises is mainly intended for the use of endidates offering Logic at the examinations as the Matriculation and Intermedital Banniantons of London University. The purpose is modest enough and it is adequately intilled by this small volume. The exercise (about 40) are all good. Clean and concise directions are given for solving the experises in evertions are given for solving the experises in everchapter Within its own limits the volume as excellent. The necessity for it, however, is not apparent. We fear that too much attention is being deroted to the 'practical ande' and too little to the profound theoretical movements. Breing granting the paramount importance of 'practical work', we cannot see the necessity for this volume, none, out to speak of the excellent exercises in text books such as those of Mellone and Cre ghous, her Toroin Press itself has published an excellent little volume of 'Questions on Logic' by Messer Holman and travel Weet the book chapter there might be home excuse. But excellent the control of the

The Child Mind is ' an introduction to psychol ogy for teachers" Mr Dumville has performed The volume is uniformly his task admirably interesting It blends psychology and teaching in a most happy manner. The latest psychological methods and results are adopted and applied Teachers have not yet got rid of the notion that the mind is a tabula rasa, a blank sheet of paper that can take in any impression. Books like Mr Dumville s will soon serve to dispel their ignorance and teach them that "we learn by doing" (p 25) Chapters VI and VII based on McDougall's Social Psychology, deserve special notice tion may also be drawn to the last chapter treating of 'back wards and super normals ' These are by no means rare in our colleges, where the class rooms are (physically) full, and the suggestions made in that chapter are consequently well worth attention. On the whole, it may be said without disparagement to works like those of Prof Drummond and Mr Spiller, that, since James' Talks to Teachers, this is the best and most interesting volume of pedagogic psychology in a small compass,

SHORTER ALGEBRA, BY W. Y BAKER, M.A. AND A. A. BOURVE M.A. (BELL AND SONS.)

Mest of the Text books on Elimentary Algebra are volumenous and "contens a great loss reasoning As a result, the Text as and only for the sake of examples" Messrs Baker and Brarne have, in their "Shorter The Shorter and Brarne have, in their "Shorter The Shorter and the Shorter and the Shorter The Shorter and the Shorter and the Shorter and modelled on modern least to suit to Splish; and the Madras School Frant Examination and that of the Bitmotheous Examinations of the Indian Universities They have omitted the more complicated portions and aided a considerable number of useful examples especially on quadratic equations. The examples at the end of each chapter are graduated and well selected, and we have no besistation in recommending this useful blook as a text book for High Sphool classes.

THE ATALN NORMI PHIRMACY ALEXE—We are in receipt of an excellent album brought out by the Atank Nigrab Pharmacy, Jamesgar The theorem is full of prictures consisting of the artes of the various branches of the beances all our India and also of the proprietors, the managers and the staff of the head office at Jamesgar

THE CALCUTE BOY'S CHOOL CHRONICE.—This published in the interest of the boys of the school at 72, Corporation Street, Calcutta, most month, the yearly subscription being Rai, 18 0. The Pranqual is the Editor in their and the staff of the school are the Assistant Editors. We wish the Magazine every success.

THE MALARA LITERARY SOCIETY, CALIFOR THE first Annual Report of the Society has been published. The Honble Justice Sir C Sankara Nair, cir., in the Patron Seeing the government of the work of the Society during the year, the future is very hopeful, and we hope the Society will, as years roll by become the centre of light and learning for the Malabar District

Indian Educational Hotes

His Excellency # Visit to Salem College — Lis Excellency was recurred at the Salem College Mr E S Ramasson Ayar, Municipal Charmar, and Mr S A Shutte, Principal of the College Mr J B Stone, Sprond D rector of Pablic Education, and Mr A G U De Botario, Assistant II specified Schools, were also present) the Assistant II was a support of Schools, were also present.

His Encolony was taken round the various classes which were at work and then inspected the Laboratory, where aduding wave engaged in oon ducting some experiments. There were three grid working at the laboratory and one of them told flux many and the supplications of Modeison sitter taking her BA D Eggrees.

His Ercellency and party left the College after spending a few minutes there, and accompanied by Mr Stone impected the site proposed for the construction of a new building for the College for which purpose the Government has annuanced a great of Rs. 50 000

His Excellency's visit to Government Girls' School, Salem .- The Government Hindu Girle School is located in a small building enclosed on all sides by high compound walls in a lane abutting the Big Bassar Street in Salem. The school has on its rolls 364 girls and the attendance is about 289. The staff consists wholly of qualified female teachers-Instruction is imported in English and Tamil up to the seventh standard and three higher standards are attended by about 25 grown-up girls, the majority of whom, however are non-Brahmans. His Excellency the Governor was accompanied by Mr. Bedford, Mr. Cotterell, and Captain the Hon'ble Coulson Fellows, A. D. C. and were received at the school by Miss Lynch, Inspectress of Girls' Schools. Central Circle, and Mr. J. H. Stone who had been there at the time. His Excellency was con-ducted into the premises, where he saw the classes at work. After the inspection some of the younger girls entertained His Excellency the Governor and party with action songs, dancing, and dislogues which were much appreciated, the performance having been given in a graceful and charming fashion. The big hall of the school and the verandahs were decorated with paper festoons and mottoes of welcome.

The following remarks were made by His Ercellency the Governor in the visitors' book :- " I visited this school to-day and saw all the clarses, some dancing, and some drawing, and some practising first and to the wounded; and also heard some singing, both in English and Tamil. The children look well and cheerful The staff seem capable and attentive, the buildings airy and convenient, per-haps a little overcrowded and when more surrounding playground or open space is possible, it will be a useful addition. I am much pleased with all I have seen of the school."

Education of Convicts.—The following G. O. has been issued - With a view to provide for the education of convicts, the Government in G. O. No. 1573, Judicial, dated 10th October 1911, directed that a system of instruction confined to reading, writing and arithmetic should be introduced tentatively in three selected jails, vis., the Penitentiary and the Central Jails at Cannanore and Rejahmundry. Reports on the working of the system since received from the Superintendents of those Jails show that the experiment has been attended with success and the Government are therefore pleased to direct that similar arrangements for giving instruction should be introduced in the remaining first-class Central Jalla in the Presidency. The system followed at the Rajahmundry Jail is, in the view of the Director of Public Instruction, well spited to requirements, and the Government consider that it may be adopted with advantage claswhere.

A Prize-distribution.-The annual distribution of prizes of the Catholio 'Elementary Girla' School, East Gate, Madura, was held in its premises on the 23rd altimo at 5 30 P.M. The Hon'ble Mr. K. Rama Iyengar was in the chair The premises of the school and the hall were tastefully decorated and there was a large gathering of ladies, both European and Indian, gentlemen of the town, besides a good contingent of school girls present. After a welcome song by the children the report of the school was presented. The report showed progress and activity throughout the year ending 31st March 1913, the attendance baving risen remarkably. Nine new mistresses were employed, a teacher in English being also employed The scheme of studies, as prescribed in the Educational Rules was strictly followed: details of management were given. The report over, an Keglish song was sung and the Chairman distributed the prizes, which was followed by some drills The Chairman made a few concluding remarks of much interest in which he referred to the liberal grants made by Government for education and the enormous efforts that are necessary to educate the girls especially in the Madura District where they had only about 60 schools for girls in 4,136 villages Rev. Father J. A Planchard proposed a hearty vote of thanks to the Chairman and with the singing of the National Anthem, the function terminated.

Poor Scholars' Fund of the Rajahmundry College .- It is notified that the Governor of Fort St. George in Council, in exercise of the powers conferred by Section 4 of the Charitable Endowments Act, 1890, doth order and direct that the securities and money now in the hands of the Accountant General of Madras of the value of Rs. 2.200 shall yest in the Tressurer of Charitable Endowments for the territories subject to the Government of Madras and be held by him and his successors (subject to the provisions of the said Charitable Endowments Act, 1890, and to any rules which may from time to time be framed thereunder by the Governor-General of India in Council) upon trust for the purposes and subject to the conditions set forth in a scheme under Section 5 of the said Charitable Endowments Act. 1890, for the administration of the said Poor Scholers' Fund of the Government College at Rejshmundry.

It is also notified that the Governor of Fort St. George in Conneil, in exercise of the powers conferred by Section 5 of the Charitable Endowments Act, 1890, has settled the following scheme for the administration of the above accurities and money vested in the Tressurer of Charitable Endowments.

The Principal and the Senior Lecturer for the time being of the Government Arts College at Rejahmundry shall be the administrators of the said Poor Scholars' Fund of the said College.

The interest accruing on the said Poor Scholars' Fund shall be distributed annually in the form either of acholarships or grants to poor and deserving students in such proportions as may seem fit to the said administrators, having in view the amount available and the needs of the applicants.

All interest on the a d Foor Scholars' Fand that may not be required for the purposes of the said acholarships or grants shall be accumulated and such accumulations shall from time to time be invested in this secritices of the divertment of India and be added to the principal of the endowment.

Board High School Amalapuram -The annivereary of this institution came off on Saturday evening, the 15 h instant with Mr J J Cotton M A IOS, the District and Sess one Judge of Resalmundry in the chair The new Sub Collector Mr H R Bardswell M A., I C S was also on the platform and there was a very good a idience all the slife of the town being present. The proceedings began with the Headmaster a report which showed steady progress in all directions. Reference was also made to the vest paid to the school by the D rector of Public Instruction a counte of months ago. The Chairman then distributed the pr zes including the "Asha Memorial Gold Medal instituted by Mr Ganti Lakshmanna BA BL an ofumnus of this metito tion and awarded to the VI Form boy who stands first in Foglish The prizes to the winners at the Sports Competition held here recently were also given away on this occasion. The Chairman complumented the school on the good work done by it and on the reputation it has earned in the Circara A vote of thanks proposed by the First Assistant a loyal song in Telugu sung to accompaniment by a few garls and three obsers to Their Imperial Majesties which were lustily responded to brought the proceedings to a close

The Brennen College—It has been practically antiled to hand over the above institution to the Government. The Director of Pablic instruction was at Tellicherry in connection with this proposal.

Educational Grants—Ont of Rs 55 000 sanctioned by the Melabar Datrict Board towards orants to the Elementary Schools an Melabar Tellicherty Talok Resid gats Rs 16 236 Wynasd Rs 8,307 Calicut 7099, Malapparam 15 911, and Palguat 7 357

Government Sublidy for Lower Elementary Schools—The Government have anothoned the distribution of a sean of Rr 28 700 to the District distribution of a sean of Rr 28 700 to the District widers delicated as the Sublington of providing additional teaching exhibiting the state of the burds at the highest school of the third as the highest school of the other schools are the schools of the Rr 24 50 and 1800 and the Chicat and Lights Munic patters Rr 24 and 36 respectively.

A Government grant.—The Madras Government bave sanctioned Rs. 1000 from provincial funds to

the Rev Dr. Steechen, S.J., Ph. D., Professor of Physics St. Xavir's College, Bombay, towards accounted the professor of the professor of concentral in connection with the radio action approximate in connection with the radio action of the professor of the surrogar of the radio action of the professor of the treasurbase Collectors of dustricts have been requested to render all necessary assistance to the Rev Dr. Stacchen in carrying out the proposed investigation.

Scholarships to Moplah Students—The Gorson ment has been pleased to award a scholarship of Rr 2 per measen to each of the four Moplah students studying in the Intermediate class of the Bremuer College, Tellicherry

The P. S. High School Literary Scottly—The Sith sourcerser, meeting of the Pennsium Schere Sith sourcerser, meeting of the Pennsium Schere waryam High School Literary Stociety was held at the Biradic Liberary, Mispone, in spite of its stormy weather there was a large systeming of atdents and others interested in the stormy weather there was a large system of the stormy weather the stormy was a large system of the stormy weather the storm of th

The proceedings of the creating commenced with the about preyer and a long but interesting programme consisting of resistators and the extensing of spends access from Mr. Skelepezer.

"As You Like It leading for two hours was the spends of the process of the pr

Mr S Srunvasa Alyangar then delivered he address to the students the subject chosen brigs. What our bys need: The meeting terminated af or the Charman a remarks with the usual role of thanks to the char and the lecturer.

ALLAHABAD

Principal Jennings and the Mair Central College - A mesance of borders we half and is Blairman per Hall, Mad-Jonell Lowers Blands Bearding and the Bearding of the Bearding and among those necessart were all flow G F de la Foars, the Hom De Sander Lol-Mar S D Duen MA A F Cor M G P. W John Mr. Polly, Mahamahoradhayay Fandis Ander Lol-Mar Delta Chartery, Rull Daladari Lala Ran Charan Das, Dr. D. R. Rapji Singh, Monshi Labwar Saran, Dr Mudbaud Tandon, Isbu Pranbottam Das Tandon, Babu Ram Bail Bai, Mahamahopadhyaya Pandii Gaoga Nath Jha, Mr. G. O. Ghosh, Habu Abbay Charan Mukurji, Pandii Shiradhar Pander, Pandii Ram Dularo Bajasi, Pandii Kali Pratap Dubo, Pandii Baldeo, Han Dave, Babu Sainsh Chandra Dub, Pandii Dava, Natraya Ribu

The proceedings commenced with the reading of an address to which Principal Jennines replied in suitable words. In the course of his reply he gave some advice to his students. He said that that was perhaps the last occasion on which they would expect him to give them some words of advice and therefore he would do so then in a few words. He wanted them to think what was the object of the education they were receiving? To him it appeared that the chiect of learning was to know their duty to the State-not to any future State that might come. but to the present State. But what was their duty to the State? It was a difficult question, but Carlyle woold belo them to decide what it was. He said that it was the duty to their neighbours. would be doing their duty to the present State, if they did their duty to their neighbours. He saked them to endeavour to cultivate a sense of that duty -the duty of kindliness to their fellow-students and to one another.

The Harish Chandra High School, Benares.—The annual price distribution of this school took place recently under the presidency of Mr. Molony, I C.S. Commissions, Placeras division. In view of husp-took place took the control of the present of the property of the property of the property of the property of the Harish Canada divide publicy to Rel Bander R. Athays Garan Sanyal, F. C. S., late Professor, Queen's College, Benares. The gathering consisted of denactionists of the Commission of the Commissions religious the services of the recipient of the

The report of the school read by the headmaner briefly narrasted the progress made by the school and referred to the need of extending the school building. He thanked the Covernment for the generous grant of Hs. 9,500 for science aboratory.

The Commissioner then made a lengthy speech in which he referred to the services in education of Bai Abhaya Charan Sanyal, the late Rai Sahib Priya Nath Chose of Jauppore and of B. Vandya Nath Das.

COCHIN.

A Scholarship Fund .-- Vadakkathala Pootashil Derasy Suroed and Vadakkathala Thottumbal Chacha Kunjippala of Kandakkadaru requessed the Government to purchase their buildings with compound in which the Sirkar L S. School at Kandachankadavu is held and invest the capital amount and utilise the interest thereof in awarding scholarships, in memory of H. II.'s Shastinoorthi. to the best students of the school for prosecuting their study in any of the high schools in the State. The above petitioners in a subsequent petition agreed to accept the price effered by the Durbar amounting to Rs 8,000 for the buildings and the compound. The Dewan Penalkar was therefore asked to take necessary steps for acquiring the above buildings and compound. The Dewan Perabkar has now forwarded his award amounting to Rs. 8,000 relating to the same. The award is accepted. The Chief Engineer is requested to take necessary stens for placing the award amount at the disposal of the Dowan Penshkar who will take necessary further steps in the matter and hand over the site and buildings to the Director of Education after completing the transactions. The amount of award will. as proposed by the petitioners, instead of being handed over to them be invested in the name of the Director of Education in the National Bank at the usual rate of 4 per cent, interest and the interest of Rs. 320 per annum shall be utilised for the award of scholarships as required by them. The Director of Education is requested to submit definite proposals. in consultation with the petitioners for the award of the scholarships to the extent of the interest amount every year for the approval of the Dewan.

Forcian Notes.

Registration of Teachers -An important along in the scheme providing for the registration of the teaching profession in Logland was reached recently when the Teachers' Registration Council, approved of regulations under which teachers may be admit-ted to the Reguler. These regulations will now be submitted to the Technological Committees in accordance with the provisions of the order in Council of February 29, 1912. It is expected that the regulations will be efficially published after the next meeting of the Council at the end of November. The former llegister, which was abolished in 1907, proved unacceptable to some sections of the teaching profession for the reason that marely it classified teachers in two colomns-Colomn A for teachers in Elementary Schools and Column B for those in Secondary Schools. By section loud the Education (Administrative Provisions) Act, 1507, power was given to provide a Register in alphabetical order and in one class, but five years elapsed before the Teachers' Regulation Council was constituted by an order in Council In the new Register Secundary and Elementary teachers will be entered on the granting of a certificate by the Bard of Education. It is now staind that the carditants which have now been framed will meet with sporntance from teachers of all classes; that the body of registered trackers will, in time, represent sit grades of the profession and will form a valuable moses for expressing the collecture views of the profession to matters of

educational noise it was possied out by one closely seconds of with the movement that the Regulation Conneil will not only promote the soludarity of the teaching profession, that will not not a decision of the control of the contro

LITERARY NOTES.

It may be taken for granted that no hook of verso published during the present season will have a more eager welcome than Mr. Kiplings. Soogs from Books, which is shortly to be issued by the tion of the poems and fragments of verse with which the author has interpreted the text of so many of his proce books, and consequently includes some of his happents metrical work.

Principal J G Jennings of Muir Central College has abridged and brit fly annotated selected passages in the non political speeches, addresses and writings of Mr Arthur James Balfour The selection has been made from the collection entitled 'Arthur James Balfour as philosopher and thinker' selected and arranged by Mr Wilfrid M Short. Of Mr Balfour s eminence both as a politician and a philosopher it is needless for one to speak. He is easily the foremost debater in the House of Commons and his speeches are always a delightful reading, if not often convencing 'Clear modern English, always cultured, often elevated, and at times rieing to beights of elcquence, touching upon themes of varied and living interest; human, sane, with a happy mingling of gravity and humour. this is how Peincipal Jennings describes Mr Balfour's speeches, and it is a correct and happy character-ization. Being interested in the Indian University education, Principal Jennings felt that here was matter more capable of holding the attention of our students of English literature than the essays of writers who died in ages that even for the average Fuglishman can scarcely be made to live sgain Here was English, Mr Jennings further felt, that Here was hegism. Air vennings further lest, that is written and spoken now, and which a fereign student might adopt without fear of speaking a quantity subjugated tongue. Simple, direct wirsle, is abould influence his speech and mind for good The publishers are Mesara, Longmans, Green and Co.

tremely low flours. A very useful and practical feature is the arrangement whereby the various subdivisions of a subject are all grouped together thus facilitating reference and enabling a student to study the subject in all its bearings. The editor has paid special attention to scientific and philosophical matters, and the intention has been to provide for the needs both of the ordinary reader and of the serious student, and in the department of geography the number of places dealt with compares favourably with the best known gazetteers. In so comprehensive a work as this, conciseness and compression are of course indispensable, but the editor believes that this object has been obtained without any sacrifice to clearness or accuracy. Particular care bas been taken that the book shall be quite up todate If, for example, we take the article Adrianople, or the account given of the French President, M Raymond Pomcaré the reader will find him or herself supplied with the very latest and most up-todate information

The new issue of the "Orford Dictionary" is a double action nucleuing the works "Tombight," and has been prepared under the editor. Trabight," and has been prepared under the editor. In the control of the prepared to the p

An illustrated edition of "Tom Browns School days" near cted from Messrs Sidgwick and Jackson this month edited by F Sidgwick, with a preface by Lord Kilbracken. The illustrations will include coloured and other plates and reproductions of portratis and contemporary views

The fifth of Mr E V. Lucus's biennish collections of Essays "Loiterer's Harvest," is announced by Messays Methagan for publication.

[&]quot;The New Pocyclopedia' which Messra, T C. and E. C. Jack here just published contains in its 1,560 pages, it is claimed, as much matter as as naught to be found in any large volumes, and the publishers, no the confident especiation of a wide circulation, have many faind the price at an ex-

SCHOOL AND COLLEGE SPORTING NEWS

Triplicane Wesleyen Mission High School Sports Club.

Under the auspices of the above Club, several Cricks, Teodall, Badminton, and He ckey matches are bring regularly played. One of the most interesting was the Kooball match recently played between the Kooball match recently played between the Kooball match recently all the several played between the Kooball matched, they were highly spirited and the game took a fauly interesting turn right through. Mr. D. G. M. Leith was attractle case of the players on the Teachers' side. Some of the teachers sequitted that the several players of the section of the players of the Teachers' side. Some of the teachers sequitted that the section of the players of the Section of the Section 1.

M. C. A. Association Fool-ball League.

Mantest a Paritaly 1204's

The match between the above teams was played recently on the Medical College Ground. As on the previous occasion, the match ended a draw, one all. Loganathan and D'Costa were the most dangerous of the Medical forwards while Ragavendra Rao stood out prominent in the Pachaiyappa's attack.

ENGINEERING COLLEGE v. THE TEACHERS' COLLEGE,

A rather one-sided game was witnessed in the return match between the above teams played on Monday seening at Saidapet. With 4 goals to the lead, the Teachers played on pand one of the English and the Teachers played op and one of the English area who had present and the present and the property of the Company of the Co

LAW COLLEGE O. THE ROTAFCRAN MEDICAL SCHOOL.

The return match between the above teams were played recently on the S. I. A. A. ground. While the Rojapuram Medicess were at full strength, the Lawyers in the absence of a boot of their good men had only a very indifferent team. The match ended in a very case win for the Boyapuram Medicince by 6 goals to ast.

PRESIDENCY o. WESLET.

The above teams met for the second time this aream, on the Presidency College ground recently and as before the homesters accored a victory by a comfortable margin. The Presidency was left winners of the match by 3 goals to mit.

MEDICAL P. PRESIDENCE.

Ideal weather favoured the meeting of the above teams in their return fitter recently on the Freidency College ground. Though both teams impossible by the navoidable sheeres of conficial referee who was unfortunately taken ill suddenly. The bly was fast and fairly eren and the Medioces who have been abowing remarkably good form in the stoom's round soored a thoroughly self-deserved in the wood's round soored a thoroughly self-deserved

PACHAITAPPA'S T. LAW.

The above teams, neither of whom has a proper ground of its own, met in their return fixture recently on the S. I. A. A. ground, The Pachaiyappa's won the match by 3 goals. The Pachaiyappa's won the match by 3 goals to nil, a score which hardly does inside to the splendid fight put un by the Lawyers.

Hockey League.

WESLEY P. PRESIDENCY.

The first match between the above teams in connection with this Tournament was played recordly on the Presidency College ground. When wincers by what appears to be a declivity mention manually 3 goals to mit, but the Presidency had only themselves to blame for this, for two out of the three goals registered by the visitors could have supported to the presidency of the p

M. C. A. Association Junior Football Tournament.

TRIPLICANE WEALTHM MISSION O, PACHAITAPFA'S,

The match between the above teams was played
on Friday the 14th Nov. 1918 on the Madrasa
grounds. Buth sides played excedingly well but

in the end the Wesleyans were left winners of the match by I goal to sak

Bishop Uetten School Sports, Bangalors, The annual Athletic Sports of the Bishop Cotton Boys' School was recently carried out on the school ground. The Band of the Bangelore Rifle Volunteers added in large measure to the liveliness of the proceedings. The programme was a generous one, running to as many as sixteen events, of which seven were got off on the opening day. The most notable event was the mile race, won by Goy Adolphus in 5 mins. 6 secs. which the Warden said, on good authority, at the prize-giving, was a local record for six years. There was generally much enthusiasm displayed in all the contests, the entries being unusually large. R. Price won the 100 yards in fine style, C. Johnson rouning a good second; C Johnson won the high jump at 5 ft. I in ; and also carried off the shot put, big throw reaching 40 ft. 6 ing. A tug-of-war between the school and its staff resulted in victory for the staff, the strongle lasting 3 mins. 22 secs. The 220 yards went to B Price, and the long yamp to the reme competion, who also won the 440 yards with C Johnson eccond. The tipped-war lap between the boarders and day scholars, the former winning easily. There was an intesting trace for perceit and the staff which was won by Mr lace of the safe, and a read for the servants of dark before the late versit went through and them and apportune was made to the school half where Mrs PA. Bytton gave away the price.

A FOOT BALL MATCH

The 27rd oilune witcessed a momentous anodes in the shape of a selfer streem to local Scate Coars. The shape of a selfer streem to local Scate Coars. The shape of a selfer streem to local Scate Coars. The shape of the shape of

Baldiein High School Sports at Bangalois.

The annual Athletin Sports of the Baldwin Bigh School were held on their ground new Richmood School were believed in the Richmood School which we have a fine of the Break School which we have a substantial and the rest during the state of the first sea the treat during the state of the School was a compared to the state of the School was a substantial to the School which was a substantial to the state of the school was a substantial to the school was a substantial to the School was a substantial to the School The grounds to be school was substantial to the School The grounds to be school was substantial to the School The grounds to be school was substantial to the School The grounds to be school was substantial to the school

Crucket at Bangalore GYMEBANA r LONDON MISSION HIGH SCHOOL

The above match was played on the Gymkhana ground and resulted in the School getting a big threabing. For the Gymkhana Lucas, Sykes and Cunningham contributed largely to the score and with 36 extres the Gymkhana totalied \$77 runs for 9 wickets spaint 69 by the School

Madras University Convocation, 1913 -- The annual Convocation of the University for conferring Degrees was held on Thursday, the 20th instant. His Excellency the Chancellor presided and the Horbito Dewan Babador LD Awanikanue Riblia dehiered the usual address.

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The Educational Review.

We, as being the oldest aducational magazine in India, offer a most Welcome to the Viceroy. Excellencies Lord and Lady

Hardinge to our midst. In a recent number reviewed elaborately his views on education and the statesmanlike policy of educational expansion he has boldly initiated. and it is unnecessary to enlarge on it further here. We shall merely content ourselves with pointing out that the future History of India will set more store by Lord Hardingo's Educational Policy than Delhi Durbars and legislative reforms ; the effect of these is immediate but evanescent. As Carlyle never wearied to assert, it is not the method of voting but the elevation of national character that will improve the country; we must look to the schools and not to the hustings for being potent factors of national growth. History now-a-days cares more for describing the life of the people, than the grandeurs of courts; the economic difficulties of England are now known to have been more powerful in bringing about and keeping up the Hundred Years' War than the ambitions of individual kings; the desire of a people to move away from an outworn form of faith brings about a change and not so much the eloquence of a great preacher. The movement is more important than the man. Levees and Legislative Councils do not touch, much less mould, the hearts of the common people, who alone make real history : but education will and that is why we attach such a great importance to Lord Hardinge's activities in the expansion of education in India where the night of ignorance is so thick,

It is peculiarly fit that the principal public function to be held by the Vicercy is the foundation of the University Library.

The Madesa University claims to be a modera University (though the impartial critic has to admit it is far from being one since one can hear in its meetings the most primitive, quite ante-diluvian educational principles). And so far neither the contents nor the organization. neither the locality nor the habitation of the University Library is a credit to the University. The University Library is not a place to which you drive in the cool of the evening to read the most recent ingenious instification of the violation of the Seventh Commandment in the shape of a novel or the latest tale from spook-land, but a place where the research-worker can make himself acquainted with all that has been achieved in the special department of science or history he is interested in. It is not costly apparatus that the research-worker wants so much as up-to-dateness. Now, books, however necessary for a Library, can never be up-to-date enough for a research-worker. Specialist-magazines, papers read before learned societies in England. France, Germany, Italy, Austria, Russia, the United States, Canada, Australia and South Africa, it is these that he wants and their provision in easily available form ought to be the objective of a useful University Library. Not things that help teaching or examinations -these College Libraries ought to providebut things that sum up human achievement day by day.

We publish clsewhere in this journal the text of the Mysore Elementary ary Education Regulation Regulation Of 1913. We concretablate the Govern-

ment of His Highness the Maharaja, and the beneficent, enlightened ruler, for having placed on the Statute Book a measure of such farreaching import as this one on education This measure embodies in spite of its moderation the recognition of the responsibility of the State for the education of the masses-a responsibility which has long since been recognised in theory, though no effect has been given to it so far in point of fact. The following passage occurs in the Despatch of the Court of D rectors of 1854 'It is one of Our most sacred duties to be the means, as far as in Us lies, of conferring upon Natives of India those vast moral and material blessings which flow from the general diffus on of useful knowledge and which India may under Providence derive from her connection with England ?

This declaration was interpreted by the Education Commission of 1882 as the equivalent of an acceptance of responsibility that 'the education of the whole people in India was definitely accepted as a State duty.' The Despatch went on further to say 'Our attention should now be directed to a consideration if possible still more important, and one which has hitherto, We are bound to admit, been too much neglected, namely, how useful and practical knowledge suited to every station in life should be best conveyed to the great mass of the people who are utterly incapable of obtaining any education worthy of the name by their own unaided efforts, and We desire to see the active measures of Government more especially directed for the fature to this object, for the attainment of which We are ready to sanction a considerable increase in expenditure.' The Education Commission of 1882, which among other subjects was asked to enquire 'how far the policy laid down in the Dospatch of 1854 in regard to elementary education had been carried out,' made the following two, among other, recommendations —

(i) 'While every branch of education might justify claim the fostering care of the State is a desirable in the present circumstances of the country to declare the elementary education of the masses, its provision, extension and improvement, to be that part of the educational system to which the attenuess efforts of the State should now be directed in still larger measure than heretofore.'
(ii) 'An attempt be made to secure the

fullest possible provision for an expansion of primary education by legislation suited to the circumstances of each province?

These were recommendations made in 1884 and that a measure of compulsory education should be adopted in 1913 in an enlightened Native State would be ordinarily no matter for particular satisfaction, had it not been for the circumstance that in this important concern the Native State takes precedence of the Government of India. That is not all It must be said to the credit of the British administration of this very Native State that even before the Commission of 1882 formulated their recommendations, a scheme of free education had been adopted, and adopted two years before the great Education Act of 1870 It is this that is at the foundation of the Education System of Mysore It was in 1867-68 that sanction had been received for the establishment of 146 hobis schools in the State as a beginning in 'a system of national schools for the Province,' a beginning was made by selecting 146 out of the 645 hoblis in the Province and these schools were to be supported by the proceeds of a cess Educa tion was therefore made free except for those

not contributing to the local fund. These schools, though under departmental control, were still subject to the general supervision of the influential residents in each hobit. The difficulty then, as it is now, was taken to train them before appointment and for this purpose a Normal School was established. The feature of the scheme that calls for notice in this connection is that donation was practically free, and it has continued to be free all along but for a brief interval of retrogression about a decade ago.

There are two aspects in which this measure may be criticised; first the principle underlying the measure, and secondly the practical working of it. In regard to the first, so far as this particular measure is concerned, the principle of free elementary education has been recognised almost fifty years ago. The expectation of the authors of the measure referred to above have been quite adequately realised though it must be stated that there is a great deal yet to be done to carry on the system to the fullest expansion possible. Education is free, according to the system in vogue and capable of indefinite expansion, limited only by the funds at the disposal of the Education Department under this head. There have latterly been no expansion in the local funds set apart for this purpose, and for years past the Government had to supplement this by large grants from the general revenues, so much so that it, was practically becoming a charge on the State revenues. As it was, however, the principal drawback to expansion was not so much in the lack of funds as in the lack of teachers and educational enthusiasm on the part of the people. This latter defect is meant to be remedied by

the application of the principle of compluision. So far very good.

The other side of the question, however, is not quite so simple to answer, nor does the position taken appear to be quite satisfactory. So long as education is declared free and compulsory, the State takes upon itself, under all circumstances, the education of the masses as a first charge upon its revenues. The Regulation we are considering does not place the matter so absolutely; but it follows none the less, once the principle is recognised as the measure actually does. The educational system of the State is already under the Government almost exclusively. This regulation will have the effect of throwing education entirely upon the State, so far at least as elementary education is concerned. There are about 2,177 elementary schools under public management with 80,175 pupils, both boys and girls. The total expenditure on these schools is Rs. 4.03.567 giving an average per pupil of Rs. 503. The total population of school-going age, according to the Report on Public Instruction for 1911-12 is 817,470. The total cost of education of this population would on this basis be about Rs. 40 lakhs. This takes us on to the practical aspect of the measure but before going to that we would point out that the measure is in principle the natural, if somewhat tardy, result of the policy inaugurated so long ago as 1867-8, but would seem not quite to realize the whole bearing of the question.

Passing on to the practical aspects of the Regulation, the first point that strikes a reader is that the Regulation can be so worked as to make no departure whatsoever from what obtains already in regard to the working of the Department in respect of this very brauch of education. There is nothing in the Regula-

that the scheme would be really productive of all that we are accustomed to associate with the adoption of a measure of compulsory education in European countries. It would be going too far to discuss the scheme in the fulness in which its importance would require it should be, in the space of an editorial, but we do think we have indicated enough to show what the scheme will be in practical working. There are already a few more than 4.000 elementary schools with about a lakh of boys and girls. The Department, as it is, finds it impossible to exercise over those anything like the control that it ought to for proper, not to sav efficient, working. There are Government Orders sanctioning schemes for opening 1,000 schools more in the course of the next few years. If this could be done in the only satisfactory way it ought to be, a preat deal in the expansion of primary edueation would have been done. The Regulation could well be made use of in a subsidiary way to help this scheme of expansion on. So far it would be excellent good work. To do more requires more than meets the eye in the Regulation itself. The first essential would be departmental agency far more active and officient than hitherto available: local organiestions and general sympathy and co-operation of the various administrative departments than would appear to be available from all that one is ordinarily able to see ; and lastly more sinews of war, and what is more than this, the men to carry on the great work that this implies.

. We do hope that all this in time would be brought into existence and the best hopes of those that wish well of the State would be realised; and nothing would please us more than that proper steps are taken to put the scheme well on the way not merely to meet the immediate needs of the hour, but the ultimate goal of statesmanship which cannot fall short of enpobling the life and improving the material and moral condition of the toiling millions of humanity of whose destinies disinterested states were are the appointed guardians.

The sesson when Fellows of the Senstaura chosen annually is ap-University Elecproaching and we desire to tions. urge on all people connect-

ed with the choice the daty of sceing that educationists are not kent out of controlling education. We hold that the University Senate ought to find room for every Principal of every College and every Professor of every First-grade College, excepting these who are known to be cranks, of perverse views or otherwise objectionable characters. Now of the Second-grade Colleges, a handful are represented in the Senate by their Principals and such large and well-conducted colleges as those in Madura, Tinnevelly, Coimbatore, Palghat, Calicut, Salem, to mention only a few. are not represented at all. We think it is scandalous that the Principal of every Secondgrade College has not been able to get into the Senata either by pomination or by election. It is equally bad that Professors of Firstgrade Colleges, who are known to be efficient in their duties, who are on the Board of Examiners have yet been unable to find their way in to the Senate which is the body that devises the courses of study. We blame the Government and we blame the electors who will not choose the right men but will introduce into the Senate, Collectors and Judges. practising lawyers, professional patriots, printers and merchants (such men as know nothing of the conditions of work in our colleges, whose one ambition is to seek cheap

notoriety by speaking on every subject introduced and who have by their garrulity compelled the Senate to pass, in self-defence the ten-minutes rule), though sducationists of more than a quarter of a century of experience offer their services We deliberately shun mentioning names, for we are concerned only with the principle-educationists first. others after them. The privilege of electing two Fellows a year to the Senate will prove a curse and not a blessing, if this is to be turned into an engine for keeping out educationists from the Senate and if the methods of the narty politician and the platform orator are thereby to be made to override the interests of sound education

This section was presided over by Sir R. C. Temple, Joint-Editor of the Anthropology Temple, Joint-Editor of the at the British Indian Antiquary His Association opening address concerned itself with the practical aspect of the general subject of authropology, that aspect which will be of practical value to those engaged in guiding the administration of their own or another country In the course of his address, he admits that "we are still, however, very far from being able to understand in all their fullness of development even the crudest of human communities," a remark which we wish to commend to the notice of young civillans who write Census reports and those Christian missionaries that are equally cockeure about the aims and aspirations of the various peoples of India and last, but not least, of those foreign religious teachers who, in these days, aspire to teach Hindu religion to Hindus, without the least respect for or knowledge of Handu feelings and Handu ideals. Sir Richard Temple then passed on to a tabloid account of the British Empire and pointed out how every language of the world was spoken,

every possible religion, every kind of routine of daily life followed, every variety of social relation practised, in the British Empire and that this it afforded the widest area of work for the field anthropologist. This complicated empire is governed from the British Isles, which send every year a body of young men to administer the affairs of its various parts. It is requisite therefore that these young men should be trained in the methods of acquiring "a working knowledge of the habits, customs, and ideas that govern the conduct of those peoples and of the conditions in which they ness their lives," so that their administration might not prove a disastrous failure. Tact that is born of "intuitive anthropological knowledge" is necessary for success. This can come only from the ambibition of the "anthropological habit" Sir Richard Temple hopes that the Public Services Commission will point out the need for the official training in anthropology of candidates for the consular service and of the Indian and Colonial Civil services recent years an Oxford school of anthropology has been created , in Cambridge, this year an anthropological Tripos has been instituted. The London University has now a Board of Anthropology and is going next year to include anthropology as a branch of the Science Honours degree But what has the Madras University done for a study of anthropology, notwithstanding the fact that this Presidency is a complete anthropological museum illustrating all stages of culture, from the lowest to the highest? Echo answers what.

Far and away the most humanly interesting Geography at British Association. British Spar was the oost this year was the open delivered to the geogra-

phical section by Prof. Dickson. The continuance of our modern civilization depends upon the unfailing supply of food energy and of mechanical energy and lastly on the lines of transport of grade and finished materials. With regard to the first factor, notwithstanding increased acreage of cultivation, and the nossibility there yet is of still further increasing it in North America and elsewhere. " it is clear that the available proportion of the total supply from 'extensive' sources has reached. or almost reached, its maximum, and that we must depend more and more upon intensive farming, with its greater demands for labour." Meanwhile present conditions by which certain definite areas set apart for the production of the food-supply of other distant areas are now changing ; in the near future there is the likelihood of such a redistribution of mankind that every region will have "a moderate dense population, more uniformly distributed over large areas, capable of providing the increased labour necessary for the higher type of cultivation, and self-supporting in respect of grain-food at least. So much for

Now for the next factor. So far the presence of coal has determined the location of manufacturing industries; in England about 300 millions of tons of coal are consumed every year; and at the present rate of increase the whole available supply will be exhausted in about 170 years. In other countries coal may last for some time more, but, "to the best of our knowledge and belief one of the world's largest groups of coalfields (our own) is not likely to last three centuries in all." Here again conditions are changing. The conversion of energy into electricity not only utilizes hitherto neglected sources like water-falls but affords easy means of conveying

food-supply."

energy in a cheap form to places where crude materials are found. Thus the energy of the waterfalls of the Alna transmitted as electricity is converting North Italy into one of the world's great industrial regions. In the near future coal might be burnt in situ and turned into electricity; and when the use of electric power isuniversal, it will affect the distribution of nonulation. A small electric motor is a much more efficient apparatus than the small steamengine. Hence whereas the steam engine in the past concentrated people in factories. electric power will effect a uniform distribution of men on the surface of the earth and the distinction between agricultural and industrial areas will coose.

Such a redistribution will react on transport. If each region becomes self-contained as before the days of the factory, the amount of long-distance transport will diminish. If the raw materials of the tropics, now transported to distant manufacturing centres and retransported as manufactured goods, are used up in their place of origin by manufacturing electricity from waterfalls in that region, how little east-and-west transport will there be. But to be able to snawer accurately the numerous questions that will arise in discussing in detail the above general considerations, a complete geographical survey of the whole of the world, much more thorough than the incomplete physical or biological or economic survey of some parts that has been done so far, is necessary. Prof. Dickson pleads for such a survey. One possible means of getting it done will be for every University in the world to develop its own school of Geography (such as exists in Oxford and in Cambridge) in the British Empire and conducting the survey of the region accessible to it.

Another noteworthy feature of this year's A woman Pre. meeting of the British sident. Association was that one of its sections-section K, Butany, was presided over by Miss Ethel Sargant, She prefaced her address on Vegetable Embryol ogy with these words "There is one more event of the past year to be mentioned before entering on the professional portion of this address Section K has made a great innovation in choosing a woman for its President this year, and I will not refrain from thanking you in the name of my sex because I am the woman chosen And though I must and do feel very keeply the honour you have done me as a botanist in electing me to this position. vet that feeling is less prominent than gratitude for the generosity shown to all women in that choice Speaking in their name. I may venture to say that the highest form of generosity is that which dares to do an act of justice in the face of custom and prejudice ' The highest form of generosity in our country is to talk on platforms on Gargi and Maitre yı aud L lavatı, to deliver eloquent orations on female education in the Legislative Council and to withdraw our daughters from schools before the age of ten lest the ancient ideal

Mr J M. Robertson, M. P., writes an The English of the Ebbls the Ebglsh of the Bibls in the Ebglsh of the Bibls in the Ebglsh of the Bibls in the Ebbls was reached the high watermark of English Process'tyle of ar as clearness and vigour are concerned, but all the same it is refused ing to read a great authority say all that he has to say from the opposite standpoint. Mr Robertson begins by demolating the fallery, so frequently attered even by such

of Indian womanhood be destroyed !

well informed men as Prof Saintebury and Sir Arthur Quiller Couch that the forty-seven men that c llaborated in producing the English translation of the Bible had absolutely no good models of English pross before them to imitate The fact is that "The Bishop's Bible (of 1568 72) of which the authorized version is avowedly a revision, supplied terbatim four fifths if not nine-tenths, of the whole text in the Kings translation, and the great Bible, fof 1540,often called Cranmers, really Coverdales revision of his own, with general resort to Tyndale and Rogers] of which the Bishop a Bible is a revision, supplied verbatsm four lifthe, if not nine tenths, of all the Bishop stext." Thus the birth of the author ized version was not a "miracle" that suddenly befell to English prose, as over emotional critics have sometimes asserted Another noteworthy point that Mr Robertson makes 18 one made long ago by Selden and repeated by Hallam It is that "the Bible is rather translated into English words than into English phrase The Hebrassos are kept, the phrase of that language is kept which is well enough so long as scholars have to do with it , but when it comes among

have to do with it, but when it comes among the common people, Lord, what goar do they make of it. We Robertson gives some illustrations of this upposition of Hebrew ideas on Legislan. We quote a few, italicinage the phrases he claims to be" not a natural way of Legislan speech. "" Bleezed in the man that italication to it the counsel of the magodit, nor standed in the way of sunners, nor satisfie as the seat of the scornful." So they stablished a decree to make preclamation." It is to us a novel idea that the Legislan Bible contains no English phrases. As we are ignorant of the process are in the contains and the contains and the contains a seat of the scornful."

Hebrew we cannot verify the statement. But

we know that the famil Bible and Tologa

Bible are excellent specimens of what is worst in translation. The words are all Tamil or Telogo, but one can read pages after pages without being able to understand anything, unless one has by the Euglish Bible and reads it at the same time. An eminent Christian missionary once bitterly complained to us that the common man in the Telugu country could not make head or tail of the Telegu Bible ; and we hambly added that we too were one of those who attempted to read some pages of the Teluguscriptures and though we were tolerably acquainted with them in their English garb could not make any headway with the Telugu rendering. The art of translation requires the possession of the sprachgefull of two different languages; if not, the language of a translation will be no better than the Government translation of their laws and notifications, published in the Gazette

faced by the following Chamical poser from over-intelligennomenclature. pupils, why do we speak of mercury sulphide and not call it sulphur mercuride, why write HgS. and not SHg. why hydrogen oxide and not oxygen hydride, why again nitrogen chloride and not chlorine nitride, why in ethyl sulphide, ethyl goes before sulphide, but in zinc ethyl, it is degraded from the place of honour? Mr. Martin solves this puzzle in the columns of the Chemical News and traces it to mediæval superstition. The alchemists of the middle ages, who were the forerunners of our modern chemists were chiefly concerned with reducing metals into demetallic form and to them, therefore, the metals were noble and nonmetals base. So when a metal and a non-

Teachers of Chemistry have perhaps been

metal combined, the noble metal was given the place of honour. This ancient custom is kept up in modern chemistry and hence notwithstanding the all-important role oxygen occupies in chemical phenomena, when it combines with a metal, it is robbed of ite individuality in the name of the compound and we get oxide of this metal or that metal. In the case of hydrogen or carbon, "the more positive element or radical, which apes the metal in the compound was, presumably from custom," given the first place. Oxygen being the least metal-like or most electro-negative element known has therefore become the cinderella of Chemistry-doing plenty of work and yet getting no name for all that.

In our editorial note last month on " More Inspectors and Inspectors," we said, "it the Vernaculars, will not be too much to institute an examination for them in the vernaculars as it is in the case of Civilians and others," We regret that for want of space we could not have explained our meaning better than by this highly ambiguous remark. which we now proceed to do. We know that Inspectors now do pass an examination of sorts in a vernacular. But we want them to be able, before confirmation, to attain such mastery of the spoken idiom that they can give model lessons, in the vernaculars, in subjects taught through that medium, just as they now do or rather are supposed to do, or at any late, a good Inspector, up to his work. can reasonably be expected to do, in the case of subjects taught through the medium of English. We certainly do not want them to expound vernacular poetry; but a lesson in Geography, in Elementary Science-subjects so indifferently, if at all, taught now-in the

Vernacular in a II Form will be an inmense stimulus to the form teacher, much more than general remarks that such and such a teacher is not up to-date. While on this subject we may also point out that we have frequently noticed that when an Inspector of Schools passes his examination in one vernacular, the D P I straight way transfers him to a place where the vernacular is different from what he has learnt. Thus one who knows Teluru well is sent to a Tamil district one who passes in Canarese is sent to a Malayalam district and when he learns Malayalam also he is im mediately sent to a Telucu district. The motives for the transfers are inscrutable, but the knowledge that an Inspector of Schools acquires of a vernacular does not weigh any thing in the minds of the head of the Depart ment.

As announced in our last issue, the Govern ment College of Commerce The Government College of Com commenced work in the Elphinstone College Build ings, Bombay, on the 22ad of last month The Bachelor of Commerce Degree was instituted by the University of Bombay early last year, and it was announced in a Press Note of June 1912 that the necessary funds had been secured forstarting a Government College to prepare candidates for this degree It was announced by Government and expected by the public that the College would be started in October this year We are therefore glad to find that the Government of Bombay have been able to keep their promise and start the College this year in spite of the usual difficulties and delays inseparable from the organization of a new institution We must congratu late the Government by delbay on the successful frequently uttered even by hich

they have been able to arrange for the first year's working of this College

Permanent staff -The course extends over three years, the 1st year's course being confin ed to literary subjects and elementary professional training Advanced Economics and Advanced professional training are reserved for the 2nd and 3rd years of the College course The services of the two expert Professors sanctioned for this College who have to bs selected by the Secretary of State from among the graduates in Commerce of British Universities are really required for the 2nd and 3rd year courses , it would have been a waste of money and teaching power to have brought them to Bombay at the very commencement, as for the elementary teaching prescribed for the Intermediate Examination in Commerce, such highly trained and highly qualified British Professors would be wholly unnecessary For purposes of organizing the College on the right lines, the arrival of the permanent Principal from Lagland would This difficulty has been have been useful overcome by entrusting the initial organization work to Mr K Subramani Aiyar, the originator of the whole scheme It may also be said to be an advantage to the College that its initial organization should have been entrusted to Mr Subramans Asyar, who has for years been devoting so much attention to this question instead of to an imported Principal who, however emment an expert he may be, will for sometime be lacking in the local knowledge necessary for making it a success.

Nov. 1913.1



The Actino Principal,-The College has been placed under the management of Mr. K. Subramani Aiyar as Acting Honorary Principal. He is a Bachelor of Arts and a Licentista Teaching of the University Madras, and has heen connected

with the organization and teaching of private and Government commercial schools and colleges for more than quarter of a century. He is the senior partner of Mesers, K. S. Aivar & Co., Incorporated Accountants, one of the leading firms of Auditors practising in Bombay. He is also the Manager of the Bombay Life Assurance Company, Limited. He is, therefore, not only an educationist of wide repute, but is also a practical business man with a knowledge of the requirements of business men. That he commands a wide practice as an auditor and that he has been entrusted by some of the leading financiers of Rombay with the management of a Life Assurance Company started by them, go to show that he enjoys the confidence of a good portion of the mercantile community of Bombay. He is an Honorary Pellow of the University of Madras and an Ordinary Fellow of the University of Bombay. He is also a Justice of the Peace and an Honorary Presidency Magistrate. His enthusiasm for, and interest in, higher commercial education require no proof as he has been consistently working for the advancement of this branch of education

for so many years. We are glad to note that the Government of Bombay have generonsly acknowledged his services in the cause of commercial adjustion and have confidently entrusted him with the initial organization of their College of Commerce.

The Provisional Lecturers .- Four provisional lecturers have been appointed by Government for teaching the four subjects prescribed for the Intermediate Examination in Commerce. Permanent appointments will be made after the arrival of the permanent Principal from England. This is certainly a wise arrangement as it is necessary to first ascertain the qualifications of the Principal and the senior Professor to be imported from England before selecting the Indian lecturers. Government must first know the subjects in which the two imported Professors are experts, so that Indian lecturers may be selected for teaching those subjects which the imported Professors are not qualified to teach. We give below the names and the academic and professional qualifications of the four provisional Indian lecturers who have now been appointed :--

Mr. N. S. Takakhay, x.a., who has been appointed Lecturer in English has, we find, passed all his University Examinations in the First Class and been awarded the Chancellor's Medal for baving stood first at the M.A. Examination in English and Latin. He has been a Professor of English in two first-grade colleges for some years past, and is said to have made a name for himself as an efficient teacher of that subject. work in this College is confined to the teaching of English for the Intermediate Examination, precisely the kind of work which he has been doing for some years past in the Arts Colleges.

Mr R. M. Joshi, x A., t. E. n., who has been appointed Lecturer in Political Economy, has passed the VA I ramination in History and Economics with Honours, has been a teacher and an Assistant Professor for some years past and its besides an Examiner in Exglish to the University of Bombay

Mr. Bhakerrao V. Mehts, MA, LLP, MEAS, who has been appointed L cturer in Mercantile Law is a practising Advocate of the High Court of Bombay, and a Director of the Biok of Baroda, Limited. He is, therefore, not only a lawyer, but a businessman in the settive exercise of his profession.

Mr S S, Engineer, BA, FSAA (London), who has been appointed Lecturer in Accountancy is a graduate of the University of Bombay and an Incorporated Accountant of London. He served his apprenticeship under Mr Subraman Aivar for three years, went to England and passed the Incorporated Accountants' Fxaminations, and returned to Bombay about five years ago He has therefore had about eight years' audit experience in Bombay, He is still a practising Auditor The arrangements made for the first year's teaching though called provisional, and though made in a burry, seem to us to be emmently satisfactory We congratulate the Government of Bombay on their having been able to secure, at short notice, the services of such an efficient Principal and a satisfactory staff of lecturers

Admissions —We understand that there has been a very large roth of applicants for admission and that the Clips authorities have been obliged for want of room to refuse admission to a large number of elgible applicants We have not yet ascortained the exact numbers that have been admisted.

but we understand that over a 100 students are now attending the lectures. This is further evidence not only of the popularity of the new course, but of the confidence of applicants and their guardians to the qualifications and capacity of the provisional Principal and his staff.

The terms—As prescribed by the University, the first term in from 22nd October to 22nd December, the second is from 1st February to 30th April and the third saft final term is from 15th June to 15th August. Students belonging to the first batch will be sent up for the Intermediate Examination to Commerce to be held by the University of Bombsy in the first week of September 1914, and for the Bacheloo of Commerce Degree Examination in the first week of September 1914.

Practical training —Though the University does not prescribe any practical course, we maderstand that the College authorities will arrange facilities for the practical training of the College attachets during their vacations. The College has an Advisory Board constiting of a number of promuent merchants and representatives of the chief mercatible associations. It will, therefore, be not difficult to arrange for the atodests serving as appressing the control of the control of the control of the control of the College and under auditors, during their vacations, especially in the case of the 2nd and 3rd year students.

Appreciation by Government —We are glad to reprint below the concluding paragraph of the Press Note issued by the Government of Bombay on the 10th October 1913

"His Excellency the Governor in Council in announcing these temporary arrange" ments desires to acknowledge that their

"early introduction has been rendered "possible only through the euergy, zeal, and resourcefulness of Mr. K. S. Aiyar, who "has consected, ponding the arrival in India of the permanent Principal of the College, to give his services in an honorary copairs to the College. The Bombay Government are glad that this institution, which so largely owes its inception to Mr. Aiyar's labours in the 'cause of commercial education, should first commence operations "under his Principalship."

We are glad that the University of Madras has recently found-University Pro-fessor for Indian ed two chairs, one for History, &c Economics and Indian another for Indian History and Archwology What the duties of the Professor who is to be appointed for the latter chair are, have not been defined with precision; yet from the advertisement by the Registrar inviting applications for this chair we may presume that he is not merely to retail information contained in published works on Modern Indian History such as those of Orme, Mill. and Malleson but that he is to build up the history of ancient and mediaval India especially of Southern India from such materials as epigraphical, numismatic and literary as are abundantly available for that purpose, and to familiarise the students with the methods of historical research and to open up to their minds fields of Indian History which have not yet been adequately treated in books published by Western authors. We venture to say that this is the proper function of a University Professor of Indian History and Archwology and that the University had this in its view in founding this chair. If each University will similarly do so for the better elucidation and working un of the history of its respective province, the history of ancient and mediaval India can easily be worked up and the reproach that our graduates have done nothing in the field of historical research will no longer be heard. Confining our attention to our own University Professor of Indian History and Archaeology, he must be a man well-acquainted with the vernaculars of our Presidency and their literature, especially Tamil literature. The materials, epigraphical, etc., for the construction of South Indian History are very abandant and most of them are in Tamil. Tamil literature itself contains a wealth of historical information which throws a flood of light on ancient justitutions. manners and customs. The requisite qualifications for a Professor who will do justice to his work, we may affirm, can only be found in an Indian of our Presidency who combines in himself a scholarly knowledge of Tamil and its literature with a first-hand knowledge and practical experience of epigraphical and archaelogical research work and we hope the University will be able to find such a person for this newly-founded chair.

SCHOOL-MANAGEMENT AND THE WORK OF THE STAFF

(Continued from 1 age 22, Vol XIX)

N the January (1913) number of the Educa tunnal Review was mentioned the manner in which the management and the headmaster might co-operate to make school work efficient and popular The reasons for some of the statements made therein seem to be necessary to make matters clear and understood in the spirit intended

In the first place, it must be seen what need there was for saying that the profes sional representative must be one who finds time and takes interest in the work Some examples may be found in which he was pressed or invited to take his seat in the Board of Management but for all the time supposed to be in it, he was never known to do anything which ever had the object of improving the condition of the schoolmaster. the course of instruction or the relationship of the school to the parents of the vouths undergoing their training in it. The presence of a professional gentleman has tended to make people dishelieve the utility even in matters in which his experience may be of use to the public He has probably contributed to worse treatment of teachers and to more frequent changes in the staff. His more sutumate knowledge of the poor condition of graduates especially of such as are in the earlier stages of struggle to find posts has only made him advise the lay people to employ them on low pay one after another, so that the trained teachers may not be more highly paid and longer kept at school Without him, the lay gentlemen might have felt some

diffidence in following the course and at least some concern lest the Dopartment should view it with disfavour But his knowledge of the rules has only taught him to point out that a certain proportion of trained teachers is enough for purposes of recognition and that the Department can by no means withdraw it. The other members of the Managing Committee are then led to say "when an expert helps us in this way out of our difficulty, why should we trouble ourselves?" He whose presence ought to have contributed to devising some plans by which teachers may be better treated and the school may be manned by as permanent a staff as possible, so that the children may not suffer by constant changes has probably only served to intensif the dieaster and embolden others outside the field of teaching into taking steps which, unaided, they might have hesitated to adopt. Thus, the possibility or the chance of an effort the management might have made to improve the financial condition of the school for maintaining a staff at least relatively permanent is altogether lost for the time being No professional representative is needed to follow the methods of the London 'Sweater, specimens of whom may be easily found every where The great difficulty is only to see whether the Department may be moved to give a larger grant, or whether the public may be successfully appealed to, to contribute sums for efficiency notwithstanding the pressure in all directions or whether it is possible to create and afford greater facilities for a fresh class of self sacrificing teachers whose devotion will place the school beyond any auxiety for sustained work of a high order on a much smaller expenditure than is now incurred No such difficulty is ever either faced or even attempted to be faced

This is a sorry spectacle by itself ; but, matters do not stop here. The professional representative presents himself as a specimen of intolerant dogmatism in matters of methods of teaching. He thinks that those he likes are only the best and that the teachers of the school must be forced to follow them whether they are suited to their tastes and capacities or not. But, the less is said of this the better it is for us to avoid mention of uppleasantness in school work. This state of affairs makes the public feel that, if only the managers either literate or illiterate can succeed in securing a headmaster who will make the best of the school-fee collections and manage his staff out of that resource without any serious preindice to the fairness of results in public examinations or to the favourable impression on the mind of the Departmental officer or officers who inspect or visit the school, they have done their duty by it. These remarks do not apply to those who helped in the past or help at present the progress of institutions, To them thanks of the public are due for their self-sacrifice in over-working themselves though their energies are well-nigh exhausted in doing their own tiresome duties. 3. In the second place, the serious ques-

tion of the headmaster's position prescotaitself. On theoretical grounds, it is easily conceded that be cught to be the lord within the school and that the example of public schools in England cught to induce every management to imitate the valuable example. But, it must also be seen that they are mere theorists who in a transitional state of things wish to follow the educational work of institutions settled after many years of experiment and struggle. Fresh experiments are now being made and fresh lness of policy are being formulated by different people in different places. Matters are unsettled and in a state of confusion. Neither the Department of Public Instruction nor the various manage. ing boards are quite sure of the ground. In this condition of affairs, the headmaster is made the supervisory authority of the school, It is not difficult to mention a number of instances in which handmasters are efficient in exercising supervision. But, whether what applies to these should also be granted to the majority of them who do not seem to know what to do with the spare time at their disposal is a matter in which no definite pronouncement need be made but in which the intelligent observer may form his own impressions based on observations of actual facts. One thing may, however, be easily noted. If, in the case of the professional representative on the Board of Management, some regrettable features were noticed, no less are the heart-burning characteristics of people engaged in teaching and supervising who instead of making allowances for the limitations in actual work go to the extreme of expecting too much, because they have themselves forgotten the difficulties of handling classes for the whole day with only nominal leisure in the midst of school-work. the greater part of it as shown in the timetable being taken up with work for absent teachers or teachers who have left the school without their places being filled up within a reasonable time.

4. What the nature of supervisory work ought to be has been indicated in the January number of 1913. It ought to be chiefly in the string of model lessons and in securing uniformity with continuity of work. It is most amfortunate that the unsure and the importance of supervision are not quite as commonly understood by the generality of headmasters

whose schools contain the three upper forms of a secondary school. Their attention is mainly directed to the production of good results in the public examination of the highest form and to the arrangement of such work in the next two lower forms as will enable them to secure a name there. When any defect is noticed in the upper forms, they think it enough to find fault with the lower secondary and primary teachers for not having sent up nupils properly trained The idea that they have not only to examine the condition of work in the lower departments from the view point of the upper forms but also to see how they must daily prepare the lower pupils for duly profiting by the instruction in the higher course is not quite so commonly realised even from a theoretical standpoint as it deserves to be. They think it enough to get information from the L 1. teachers of the upper forms as to what they are doing or to make them work harder. When the reality is understood, it is not these that require supervision so much as those of the lower departments who should be looked after by the headmaster with due care and regularity Taking the staff of the primary school as it is, its members need help not only in methods of teaching but also in knowledge of subjects The deficiency in the latter respect has been tried to be rectified in Madras by the lectures on general subjects to primary teachers-lectures organised by the energetic efforts of the Inspector of behools, IV Circle Though this is a decided advance on the position of things as they stood sometime back, a considerably greater improvement is needed in each school by the headmaster baying to make thorough in a higher degree the knowledge of subjects as required for the particular school by each

headmaster than general lectures to a large number can, to benefit the primary teachers. The headmaster's work in this line to however small an extent demands labour and skill Even leaving this apart, ordinary supervision of the primary school containing only one division in each of the four standards takes up two hours per day at half an hour for each, if the headmaster takes care to be sure that the knowledge siresdy stored up by the staff without need for fresh instruction is imparted to the children in the proper way suited to them Similarly the supervision of the lower secondary forms at half an hour for each takes up an hour and a half, if there should be only one division in each of the Forms I. II and III If the headmaster comes into contact with upper secondary teachers for half an hour each day, the total number of hours in which be will have done good work comes up to four If he spends an hour in office work, he does five hours' active work which ought to be enough to please the management. Matters are certainly complicated with more than one division in each of the standards and forms. How few are the managers that appreciate the value of supervision of the kind described? It must be borne in mind that only one person -the headmaster ought to exercise supervision in the primary and lower accordary departments. Of course, he has to take a great deal of trouble and work a sufficient length of time everyday to acquire and improve the general knowledge required for efficient guidance to the staffs of the lower departments. This alone can secure the advantages of centralised authority demanded in a school-The amount of general knowledge required is not too high for any graduate-headmaster of ordinary attainments to gain. Patience and

paine-taking are the only essential requisites.

5. In the inspection reports of more than one school may be found the inspecting officer's remark that the headmaster of a secondary school might secure the co-operation of teachers of upper forms in special subjects in the supervision of those in the lower forms. The Inspectors anoth not to be misunderstood. Do they speak of co-operation '! Yes, co-operation, strictly co-operation. Why? The beadmaster is the chief person to do the business; now and then, by way of help to him, they may also take a little part ; for, if their own work is to be autisfactorily done under existing conditions, they can spare only a very short time in the course of the month. If it is a lamentable feature of school-life that the value of the right kind of supervision is not superciated. not less regrettable is it that the significance of work properly directed and supervised is not generally understood. Examples are not wanting in which it is found that time is, out of all proportion, spent on matters of little or no educative effect. Again, the reader is requested to warn himself that these remarks do not apply to the minority of supervisory headmasters capable of turning out excellent work. All that has to be understood to be the vital and fundamental affair in the teaching in schools is the proper influence of sound supervision on the conduct of work in the whole school-sound supervision in which the headmaster will exert his personal influence with the occasional co-operation , mose, senior assistants.

6. So far, the management and the head-master have some in for a large shares of comment. There yet remains to be treated of, the work of the assistant masters; but, it is natural that much more should be said of managers and headmasters than of nesistants because on their control depends the nature.

of their subordinates. But, the aspect of school work from the teachers' view has its own importance. They may serve in different kinds of management-Local Board, Municipal, Missionary and private indigenous schools. In the Local Board schools, the assistants have no difficulty. The headmaster has to get on with the President of the District or the Talog Board. If they get on well, no interference of any kind disturbs them. In a Municipal school, the headmaster is responsible to the Chairman of the Municipality. But neither for the headmaster nor for the assistants is the path quite smooth. If there are factions amongst the councillors, the staff has to decide which will be more profitable to them. Even if no factions disturb, the councillors expect some sort of respect from the subordinates in schools. But, even then, the difficulties are far less than in Missionary or indigenous schools. The non-Christian teachers of Mission schools cannot be sure of their posts when Christians are available. However, so long as the former are retained in the service they are treated with kindness and respect. Amongst indigenous schools. a small number is managed by teachers who are themselves proprietors. Their individual gains affect the prosperity of their institutions and the considerate treatment of the staffs. In other private schools managed by committers, the indifference of the latter and any "5 Verences between them and the headmasters tioners the staffs at a considerable disadvanpeace (Whatever may be the nature of institutions in which teachers serve, one fact must

tions in which teachers serve, one fact must be remembered as of supreme importance. The parents and the public know nothing of the internal relationship between managers and headmasters or between beadmasters and assistants. In this country, the tradition of ages has accustomed people to look upon

schoolmasters with confidence without doubt. vet, the notions of utility in an advancing age of complex mordern civilization force men to inqu're whether teachers are properly paid and treated But, this is a matter of only recent growth. The influence of longestablished tradition is still paramount. If there is one thing more than another which teachers should take into account with conscience and with feelings of pity for the public, it is this element of people's trust that should weigh with them. It is not of any use for ass stants to excuse themselves on the score of some fault either actually found in headmasters and managers or im puted to them They ought to recognise the actual conditions that prevent even well intentioned beadmasters and managers from doing all that they wish to see done by the staffs though they may not outwardly show signs thereof, lest they should lead to later disappointments which are worse than loss of hope They ought to feel that Managing Committee members of indigenous schools give their time, energy and intelligence without any reward in the shape of money. whatever may be said of them in other ways As a matter of discipline, they ought to feel that, if they only make their representations to the official superiors they have done the little that they can but that at the same time, it is their duty to make the best use of the resources and materials available to So long as men are employed in any service they ought to adjust themselves to the requirements thereof No management can be smooth if its subordinates mean to question the authority of their superiors If these think it to be to the interest of the institut one managed by them to consult the . staffs and yield to their wishes as farov nossible, it is well and good If they do of ass stants ought not to fancy that they of legitimate grievances against official needs Sometimes, no reasons may be assigned, as these are not desirable in certain conditions These need not be questioned at all Sometimes, may be noticed weaknesses too plain to be concealed and too serious to be tolerated from any standpoint As so example, a manager who had spent a good number of years in bringing his institution to the front

by saving money may not easily spend the money needed for the improvement of school work, may much less think of increasing the pay of teachers except under unavoidable pressure. It is, of course, creditable to him to consider duly altered conditions and treat the assistants accordingly, if he does not, they must only think that it is a natural haman weakness on his part and that they must by no means, do there own duties less vigorously or willingly, on that account-In the interests of the assistants' future pros pects in life, it is but reasonable that they should exercise their patience under different conditions of management and that, if they would only attend to the needs of discipline necessary for the various kinds of institutions, they might have their own days of influence and prosperity If, in spite of these, they do not succeed in work and life, theirs will not be the fault. This consolation ought to and does support them Their own obedience to disciplinary rules is the desideralum in school life in the interest of the future citizenship of the large number of youths committed to their charge However successfully attempts may be made to conceal breach of discipline on their part, the children of schools do somehow or other come to know of them This knowledge has a deterrent effect on the training of pupils. Nobody ever contends that this is at all desirable Particular care must, therefore, be taken that nothing reaches the ears of pupils which tends to lower their respect for teachers and superiors Managers and headmasters ought to be guarded, if they are wise, that they keep confidential, matters which ought not to be known to pupils But, whether they are wise or not, it is not the duty of cants to do anything calculated to deal of the tone and discipline that ought to of time at a schools if they are to be centres imparting instruction in subjects and preparing future citizens for the performance of civio duties.

C R SEIMIVABL RANGACHARY

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SOME NEW IDEALS IN INDIAN EDUCATION.*

Mr. Chairman, gentlemen and young friends: The system of education which our young men are now going through is not altogether a thoroughly well thought out and organised one as yet. It is still groaning under the burdens of the traditions of the past, e-system which had admirably served its purpose. When the Government of the country had to case the problem, their awards wave approximant to them and education was accordingly

fashioned to serve the purposes of Government, to secure to them able and willing servants to execute the mandates of the supreme authority, to serve as excellent judges and lawyers who would help them in the administration of the law, evolve order out of chaos in the Revenue administration, in the settlement of land disputes and in the gradual subjugation of the criminal population of the land. Therefore, the Madras University when it was newly constituted paid most attention to the development of such capacities as would produce Government servants and lawvers expected to be co-adjutors with Government in the administration of the country. We all know how very well that system had worked and had served its purpose. But when once as a result of the settlement of the country into a state of peace and contentment. a generation had sprupg up absolutely unacquainted with the troubled times of a past sge and therefore with new ideas and aspirations, we are no longer content with having a peaceful Government, no longer content to otradial bad daidst annitiana sandt wormen been open to our fathers and grandfathers, and symptoms of the beginnings of a national life are visible. We begin to learn of what is going on around us out of India and many of you here doubtless know of what is going on in the far cast in Japan and what has been

An Address delivered by Mr. K. Seshu Alyar,
 RA, LT., Headmaster, Manicipal High School,
 Mayararam, at the Anniversary of the National
 Association, Velipelayam, Negapatam, on the 4th
 October 1913.

achieved even in those countries which hitherto were regarded amongst the most backward races of the world Your impulses are naturally roused and as men who have been profited by lessons of such history as you have learned, meagre as it is, you desire that in your turn you also should enroll yourselves among the members of what should in course of time become a nationality Looking around. you find that though we have a thoroughly organised Government, a stable Government, a peaceful population, happy and contented within, protected by the mighty arm of the British Empire from without (and we shall always be content to be that), you are not really contented Signs of it are already visible and Government know it We desire naturally that we should develop along several lines of national activities which are the characteristics of a nation in modern times. Contented for several thousands of years to be purely an agricultural race, with a large percentage of our population leading more or less a parasitio existence upon the rest, hearding in our minds the traditions of a forgotten past, we now begin to see that in all that constitutes an organised life of a civil zed nationality in the modern sense of the term, we are absolutely backward, far behind, I cannot say, any other race, far behind most of the races of the world We desire therefore to acquire some of those capacities not in one generation or two, but in 3 or 4 or 10, when we may expect that we also shall be called human beinge, men with whom even the Bers would shake bands and whom they would think fit to live in any land as members of a civilised nationality I believe you have hopes and because I thought you have that, I agreed to speak to you about it, how your expectations could be realised, not in your

life, but at a very distant future Many of you imagine that while Japan had suddenly sprong up into national consciousness fully armed as if from the earth and capable of shaking the mightiest nationalities of the world, you think that because Japan, a small nationality had been able to do tlat, we also in a short time ought to be fully equipped to be entitled to equal attention The conditions are so entirely different and I cannot attempt at this stage to tell you in what respects they are different. Japan had never been a subject race, had never known divisions internally of the kind It was one solid known in our country nationality always Within, one portion of the population may have been subjected to another, but in all that concerned Japan and the Japanese, they were united in manners, customs and religion What therefore they had to acquire was only that power and might that comes of solidarity which had not till then existed The elements of solidarity had already existed and they had only to develop it and it was therefore so easy We, on the other hand, I ave yet to acquire the elements of solidarity within us and therefore you must be much more patient, by content to do the work of laying the foundation of the structure the uprising of which we may not live to see Our education has to undergo a thorough modification, if we really desire that to the very far distant future our children and children's children should enjoy that pleasure which we can only dream of In what directions should our educational system be changed? It is changing already I only want to draw your attention to those parter cular directions in which the changes are coming and of which you, of this genera tion, should derive as much probt as possible.

PRYSICAL EDUCATION.

Dec. 1913.1

The first and foremost direction of this new change is, that before everything else you should grow into a healthy strong vigorous animal. Think of your self as a being to exist, to perform certain functions and that those functions can only be performed by developing your animal powers, muscular powers, physical powers. This is the most crying need of the hour. Animality has been used in a grosser sense, but in the purely physical sense you have to develop it. If ever you do want to see specimens of the most decrepit animals you have only to see au assembly of highly cultured men of 40 years of age and above. Yes, myself and my predecessors are responsible and have been responsible and so I am here to confess to it. We are responsible in the sense we have been called upon to do certain things inst in the same fashion you are asked to read certain things, the purport of which you do not understand. We, teachers, are merely wheels, springs and screws of a clock work mechanism which has been set for us and we can only go on turning and grinding and grinding as we are told we should do. Unless and until our nation wakes up and comes forward to maintain teachers who would devise for them that system which is best for them and the pation would insist on getting what they want, that they shall get their very best men, physically, morally and intellectually, you have no right to claim that the teachers shall be any better than what they are. What have they done to elevate their position, to improve their status, how have they been treating their own teachers, what respect do they show to the profession. what prospects do they held out? Go into the ranks of lawyers, Munsifs, Sub-Judges

and Depaty Collectors, count how many who are now in the higher ranks had begun as teachers. Finding that they had no prospect of an honest livelihood as teachers, they jumped from one profession to the other. The teaching profession is therefore merely a refege of all who cannot get better place elsewhere. When I speak to you elders, it may be uccessary for us to discuss how we shall improve the profession, but for the present I shall confine myself to the young men.

The effect of the education of the past is to grind your brains, leave you no time to think of the development of your physical powers. A great many of you rise up in the morning, read from 4 to 6, write up your home excercises from 7 to 10, and again read away in the evenings and night. No wonder you are asked to work if you are depended upon by your parents for support in their after-life. Finding the examination approaching the anxiety for passing which the boy does not understand, the poor auxious mother wakes up the exhausted child, tries to open his eyes, and it is a loving mother that calls him, and as in duty bound. the boy sits near the flickering lamp and sits up with his books, mugs up and before it is day time he has his bath, comes and works at the exercises. If the boy is found in the street to play at marbles, he is called and addressed thus, "My boy, do not waste your time, do not play, come here, what did you read to-day, how many marks did you get" and it is no wonder the boy is exhausted. We at 35 or 40 know what exhaustion is, but boys under 20 do not know it. Passing through this grinding mill of bookish education, it is no wonder that more than 50% of us perish before we fulfil at least a quarter of the ext pectations which our parents had entertained on our behalf. In other countries public I fe has this advantage, the advantage of the guidance of the mature wisdom of men who having passed through the hard struggles of life had retired into a decent competence and with the advantage which public esteem and private wealth affords the leaders of the people in the West maintain a high standard of civic virtue They form, as it were, a re serve of intelligence and capacity have we such reserves? Our wisest men drop down before they have provided for the mesgre wants of their familes and how many are surviving! I shall not describe the condition of those that survive D rectly they are old, they are no use for the guidance of the race If I were to be given the options as a famous R shi of old was said to have been given do you desire to have the wisest boy who could live for 16 years and die or a dull stupid boy who would live long, and if the definition of wisdom is to be that of many of our University graduates who with weak health will fight their way through for a first class diploma or for the law and live for a short period of 20 and vanish like a meteor I would not accept the Rishi's choice I would therefore any first attend to your animal wants, do not rush through your food because the school bell as already heard Sit at your food in advance of your bell and grind it well, assimilate it, get health and strength first before you would go to compete to be a lat class graduate of a University, and I would say that even at the risk of failing in the examination, you should attend to your animal wants, for the very fundamental necessities of the physiological existence is against the faifilment of your intellectual deures. Sacrifice your inordinate intellectual desires, give prominence to phy-

stological necessities An educational system in order to be satisfactory should be such that for boys under 10 or 12 there should be absolutely no need to look into a book so long as the boys are at home. The education given should be such as to draw his attention to facts of external nature, attention by bring ing the child into direct contact with nature and in a fashion that he would never forget what he has learned. There should be no need to know what he has been told by the teacher-no telling at school It is direct first hand knowledge that he should have and therefore no surrety to read at home At home he may be doing a little drawing, sketching, things which would come sportaneous to a child and above that age, for 3 or 4 years, half or one hour's study should be enough and beyond that 2 hours study If we take our school working period to be nearly 5 hours, I do not think that any educational system can be regarded as sound which would demand more than ? hours devotion to intellectual studies in the course of the whole day including school or college work You, young men, you have not the option to decide what you shall read I can only say you have this option, rit , to decide that you read only so much a day and that you do play the rest of the time, notwithstanding the demands of your unfortunate parents, who, is their anxiety to save you from a failure, would demand that you should set by the twilight and go on laying the foundation of a physical wreck of a later period Sports in the evenings do form part of education A strong healthy animal has certainly virtues which we know are altogether absent from the present race and if you do want to develop auch virtues, you must possess health and vigour. We are speaking of sports and games not merely to fulfil the physiological needs of the body, but for the much more important purpose of developing the faculties incidental to health and vigour,

CHARACTER.

The second advice I would give you is to grow into a manly man. If you do develop into a healthy strong animal, you will naturally be expected to be a manly man. That is to say, you should possess character. The functions of any educational system will be fulfilled iths, provided this fundamental necessity of a national life was thoroughly provided for in the educational system. Are we now wanting in character, we may ask. I do not propose to analyse wherein the defects of our elders are : I can only tell you what you should become. We have certain very good elements of character. We are very good peaceful citizens, with very quiet going virtnes which have become latent in us nerhaps from our birth, virtues which through long centuries we have acquired as the fundamental pecessity of self-existence and selfpreservation in a country torn by internal political dissensions and martial disorders. We have all the virtues which the Daspot of an absolute country like Russia would like to see developed among his subjects. We have all the virtues of a subject race, but very little of those virtues of a nationality. What virtues do we require which we should try to develop among ourselves? Since I said these virtues evolve naturally out of a healthy animal, the virtues that I want to specially draw your attention to, are such as developed from, by and through sports.

Ozenience.

The first and must important of each virtues from every point of view is the virtue of

implicit obedience to the authority constituted above, the Captain of a Football team, or the Vice-Captain of the Badminton ground. Every member of the football association must feel that the Captain has eves to see things which others have not and that his orders, right or wrong, should be instantly obeyed. If you would learn to govern yourselves in the distant future, as children, learn the virtues of obedience; we have not learned obedience in the sense in which it is demanded, absolutely loval obedience to a chief who has been placed over us for a particular purpose; we have learnt the phedience of necessity, not the phedience of purpose. Since many of you are still at school I would recall to your minds the two famous lines relating to the historic Balaclaya charge where the 600 men rushed at the cannon's mouth at the order of their General.

Theirs was not to reason why

Theirs was but to do and die. It is that kind of obedience that you should develop in every walk of life wherever you are placed. You may be placed above a certain number of men, but you may be placed also below certain others. Whatever be the walk of life, no man can perform the functions allotted to him unless he carries out to the very letter the order of the superior authority. Once you secept a place and serve in it, it is not for you to exquire why you are called upon to do a particular thing. but do it to the best of your might. It is because most of us begin to reason on the orders that are given to us that we fail in discharging our duties. This characteristic can only be developed in youths as pupils se students. You may turn the pages of the history of any nationality and you will find no nation has ever come to the front wherein thousands and millions have not rushed to mevitable death at the word of a Commander You should learn the virtue of absolute. implicit obedience to authority You appoint a President or Secretary in an association and you give him certain powers to exercise in his own discretion. It is your duty therefore to bow to his decision, to obey that authority If, later on, a time comes when you want to change the authority, it is in your hands. If you are not satisfied with the Secretary in the discharge of his duties. annount another, but during his term of office. do not fail by any means to act in obedience to his authority. I am giving you the position of Secretary only as an example. It 18 so in every walk of life Take any indostrial concern, there is a company which appoints a Manager or a Director, he gives an order, he has all the strings of the concern in his bands, there are many things which in his judgment may not be divulged to any other member of the Company. There may be many branch firms or agents and as soon as a telegraphic order is received, it is not for the Agent to ask why he should carry out that order and say "If I delay, I will gain " If he does so, the whole Company may go to dogs. It is the duty of a subordinate officer in every walk of life to carry out the orders of the superior officer and if you want to learn this, you must learn it at school in your games and sports

CO OPERATION

Having developed the virtue of obedience, the next thing to learn is to co operate among squals. The virtue of co-operation has been greatly talked about of late, but wherein the real trouble comes has not yet been properly understood. Co operation means subordina-

tion of self. When you want to work and rub shoulders with another, you must put up with all sorts and conditions of men Cooperation requires that you should draw within yourself all those inequalities in you which would prick your neighbour Some people think that others also should think like themselves and that is exactly the situs tion at present Many of us have none of the virtues of co operation with the result that few of our povements flourish Learn to compromise and if your friend does not keep pace with you, try to start with him and make his pace at least half as fast again as before Give him encouragement in every way, do not make it hopeless for him to proceed by your aide Your football, cricket, tennis, hockey, every one of these sports illustrate forcibly the virtue of cooperation Unless the half backs would act in unison, and unless the goal keeper can pass the ball to one of his own party and be ever on the alert in order to fulfil the functions of his place, unless there is co operation, the opposite party would have a goal every 5 mi nutes Football is intended not merely to develop your muscles, but to forcibly impress on your minds the necessity for co-operation. It may be, a friend of yours has missed a very fine kick or kicked a wrong half side and has placed the team in an awkward position It is no use finding fault with him He had probably done his best. You must learn to get on with good, bad and indifferent friends in life and make something out of them You must begin to learn this virtue in the football ground. It is not a mere incident of a game, it is a virtue and you thus begin to learn the elements of self sacrifice in later life

SELP-SACRIFICE.

To the Indians as a race, self-sacrifice does not require to be taught. It is instinct in von. Your past history, your religion. everything inculcates self-sacrifice of a kind. perhaps to an extent unknown to any other race. Every Indian, Hindu, Muhammadan or Christian, has one virtue unknown to other races of the world, pover to allow any one of his kith and kin to spoil the family name or prestige. If you have the means, you would never allow any kinsman to beg for food. You have an idea of family prestige, no matter what it is, in the interests of your brothers and yourself. The elements of self-sacrifice are there, only you have to enlarge it. You have to learn sacrifice not merely for the prestige of your family but to learn to do it for the prestige of your nationality. It is this kind of self-sacrifice which has to be acquired and can only be acquired by trying to practise it in your early life at school. Later on, it may become difficult, if we become accustomed to the conventions of the world, if, in your school, you never learn to value something higher than self, to value your society or town or national advancement and make a resolve that if ever you are going to profit and improve yourself, it shall be by methods which shall never do harm to a fellow-conutryman, to a town or your nationality. I am often tempted to enquire how large fortunes are made by some men in high positions and in a few individual cases. Many instances there are which would not bear such au examination or analysis, but to you, vonue men, before von begin to enter into the world, before you form high ambitions,to become a Collector, a Judge or the head

of a Shipping Co., I would first insist on one or two things, i.e., you should resolve to die a beggar than live a dishonest accoundrel in high position. Would you spurn the public opinion of your own race? Would you sell your nearest and dearest countrymen and rise up to high position? You would die content to be a beggar. Your speestors had not only preached, but had practised this virtue: begging was not an offence in ancient days. It was practised by men of the highest character whose duty it was never to take thought of the morrow, to address the highest authorities of the land as regards their duties. Your Rishis carried their life in their hands. entered majestic and nompons durbars and looked kings in the face. A heagar clothed in mere rage told the sovereign that he did wrong. Now, we require beggars of that kind, fortunately not to go and talk to the sovereign, but to talk to our own people and people in high positions. Many of our own countrymen have to be addresed by beggars even at the risk of losing their livelihood, to reclaim our people, to develop civic virtues. which is merely the collective name for these three fundamental elements, viz. implicit obedience, co-operation and self-sacrifice. If you develop these characteristics, you have developed the civic virtues. None of these would develop satisfactorily without a strong physical animality at the back ground. The young man who has developed these has fulfilled 3ths the purpose of a good educational evstem.

KNOWLEDGE AND LEARNING.

Now, I come to what has been regarded, by a mistake, as education proper. I mean education in our schools and colleges. As young men it is not your daty to enquire into why you are asked to do certain things, but to some of you who are in the higher classes, the privilege is still given of choosing what subject you are to study Therefore I propose to lay before you a few ideas which would guide you in determining in what particular directions you would allow to develop yoursolves

The education of the past has been summarised in the word, learning Our country was a land of learning and our Universities were seats of learning in the true sense The requirements of modern life demand that our Universities should cease to be merely centres of learning, but shoull be centres of knowledge. You may ask what is the difference The difference is that between "to learn" and "to know" Our Vakil friends are accustomed to witnesses who say, "I know this' but when cross examined these same witnesses would say, ' I meant when I first said 'I knew', I learnt it from so and so " That illustrates the difference between learning and knowledge Our Universities should become centres of knowledge and not centres of learning Learning had its own place, but the time has come when mere learning has ceased to be of value and knowledge is the supreme requisite of the hour It is not your fault that opportunities for knowledge are few at schools We are just making a beginning, just beginning to try to give knowledge. I want you to avail yourselves to the fullest of such opportunities as your schools afford to obtain direct first-hand knowledge of facts and things Learning is acquired through your storing up in the brain a concatenation of words, but knowledge is that which you discover yourself, of which you are certain and if anybody says that what you know is wrong, you would have a tendency to give a good hat on his head and it is this kind of knowledge

that is wanted. (The lecturer here narrated his own experience with a science graduate of 45 who maintained that the colipse may be due to the intervention of the snake). We want nowadays young men who would learn to do things. There is no use students going up for employment after mere general education as it is or a training to shorthand and typewriting You should learn to do things with your hand, to refashion some objects. The time has come when the school abould devote at least half the time for knowledge and half the rest of the time for the old-fashioned and time-honoured method of feeding the brain through the ear and the rest to manual training Learn to do things and for this purpose there are few opportunities now provided But wherever such opportunities are provided, take the fullest advantage of it. In a commercial town like this (Negapatam) there are splendid openings for young men to learn to do things if they would give up their timehonoured prestige of securing a billet in the Government offices Accept a job as fireman in the Railway Workshops where they pay decent sums for unskilled labour Start with high ambitions, learn one bit after another, in the carpenter's or smith's shop, and, in a couple of years you will find you will be able to do things yourself and you will be in a position to make very fine chairs such as are unknown in the domestic circles of Negapatam We are paying 5 times over for firmsy chairs imported into the country and if they could be made by workmen here, it will more than pay their wages It is for you to develop higher ideals and for this purpose you must voluntarily, cheerfully, bear the burden of physical labour toward the acquisition of skill in the finer grades of

workmanship in every kind of industrial life. No commerce can flourish unless you have skilled workmen and such men we want from those who have been at schools and colleges. not merely men who know how to read and write, but those who know to do things, who dare to do things and depend upon their mental and physical powers and who do not seek the recommendations of distant relatives who have high connections to recommend them for places. In your educational system, wherever opportunites are provided for direct first band knowledge, make use of it and try to enter other walks of life of unskilled labour. The history of the advance of commerce in Europe, the history of the inventions of the 19th century, is one continual history of inventions and designs. made, not merely by research scholars in the University libraries, but by workmen who rose from factory hands to heads of factories. Do not continue to place a low value on mechanical training, obtain direct first hand acquaintance, use your hand and the eye and train your brain. I will not disclose what the result will be if our country can only boast of even a few youngmen brought up under such a system, who would go about establishing small industries, small workshops, here and there. The time may come in 2 or 3 generations when we need not continue to curse ourselves as being purely an agricultural race. CONCLUSION.

I have tried to indicate the directions in which I want your ideas and thoughts to diverge from its accustomed channels. May fool grant to all our youngmen health and strength to grow into strong and vigorous citizens who, fully conscious of the history of the past, would do something so as to any to themselves that they have also contributed

to the building of a distant nationality. (Loud Applause.)

LIGHT: A DETAILED SYLLABUS. RECTILINEAR PROPAGATION.

L'IGHT a form of radiation. Scientific hypothesis never provad or disproved, but amplified or rejected. Ether exists only in the imagination of the physicist. Opaque and transparent media. Translocent bedge, Gold and silver in thin leaves. Ray, pancil, divergent, convergent, parallel, To show that light travels in straight lines. [Exp. 1, Sinclair]; Invarted images produced by a pinhole. (Exp. 4, Sinclair); Explanation. Construction of a pinhole.camers. The effect of changing the shape of the hole; increasing the size of the hole; making several holes. Uniform illumination. Intensity of illumination.

Shadows:—(a) when the source of light is a mathematical point, (b) when it is of definite dimensions, (c) when the luminous body is smaller or larger than the opaque body. Umbrs, Penumbra. Eclipses of the san and the moon; annular eclipse of the san and the moon; annular eclipse of the san illustrated experimentally. Formation of shadozs, (Exp. 2, Sinclair), Calentation of the length of the earth's aluadow. Experimental determination of the sun's dimenter (Gregory and Hadley, pages 239-40). Determination of the size and shape of a shadow by graphical construction.

PROBLEMS.

What are the chief differences between a shadow and an image ?—How would you mark out a straight line on a lawn without using a line ?—Hold your pen between a sheet of paper and the window, the pen being close to the paper. More the pen away from the

paper What happens to the shadow? Why?—
A penny is held (1) edgeways between a small
flame and a screen. What is steen on the
screen? Would there be any difference?

Would there be any difference are
placed quite close together in a row at the
centre of a room, and a wooden rod is held
in a vertical position at a distance of about a
foot from the candles Explain giving dia
foot from the candles Explain giving dia
grams, why its that as the rod is moved in
a circle round the candles, the shadow cast
on the walls is in some positions sharp ard in
others very ill defined—If the sind's rays
make an angle of 45° with the horizontal plane,
how long is the shadow cast on level ground

PHOTOMETR1 The law of inverse squares | bxperimental

by a vertical pole 50ft high ?-A vertical rod

10ft in he ght casts a shadow 12ft long on a

level aide walk How tall is a tree whose shadow

at the same time is 72 ft in length?-How

could one find the height of a building by

employing the method suggested by the

previous exercise?-How would you use a

The law of inverse squares Experimental verification of the law (Exp. 1, Woolcombe; Exp 2, Glazebrook) Explain why in this experiment the calculated results do not agree with the experimental ones Scale drawing to illustrate the truth of the law. The law of inverse equares established by means of Rumford's shadow photometer, Bunseu's Grease spot photometer and Jolly's Paraffin wax photometer (Exp 6, 7, 8, S nclair, Gregory and Summons, sec 38, Watson, Lx 99) See Chate's Laboratory Manual for particulars of construction of Jolly's photometer Illumi nating power, standard of illumination, Measurement of candle power of a lamp by means of each of these photometers, in particular, the shadow photometer

PROSLEMS.

A standard candle is 210 cm from a 19 candle power electric lamp Where should a screen be placed between them in order that its two sides may be illuminated equally? Where else, along the line poining the I ghis, might the screen be placed and jet le illuminated equally by each source of 1 gbt ?-How would you arrange an experiment to determine the percentage of light that is transmitted through a neutral t ated glass plate?-Two lamps are placed on opposits sides of a screen, and their distances from the screen so adjusted that the two faces are illuminated equally A semi transparent sheet is then placed between one of the lamps and the screen, and it is found that the other lamp must be moved to twice its original distance from the screen in order that the two faces may be illuminated equally again What fraction of the light falling upon it is cut off by the sheet ?- If the sun were at the distance of the moon from the earth instead of at its present distance, how much stronger would suclight be than at present? The moon is 240,000 miles and the sun 92 000,000 miles from the earth

REPLECTION FROM A PLANE SURFACE

Reflection and refraction; regular and irregular reflection, consequences of reflection, why a sheet of paper or powdered glass appears white, diffused light, twil ght. Laws of reflection of light Pin method of certification (Exp. S, suchair, Watson, Exp. 103, 101; Gregory and Simmons, Part II, see S9, Crew and Tatuall, Ex S5), Legality of distances of image and object from a plane reflecting surface proved geometrically. To determine the

angle through which the reflected ray turns — A ray strikes a mirror obliquely and the mirror is turned so that the new reflected ray is at right angles to the former reflected ray Find the angle through which the mirror has been turned

MULTIPLE IMAGES

*To find the number and position of images formed by two inclined mirrors (Exp 13, Sinclair, Exp 105, Watson, Gregory and Simmons sec 40c) The Kaleidoscope Images in parallel mirrors (Exp 14, Sinclair, Exp 106, Watson Gregory and Simmons sec 40b)

Problems

Place the two hinged mirrors at an angle of 120°, and see if the role for the number of images, as found by the experiment, is true for angles greater than 90° Try with other angles up to 180°. What happens when the angle is greater than 180°?-What is the angle between two inclined mirrors when a ray, reaching the first mirror in a direction parallel to the second mirror, after two reflections is parallel to the first mirror ?-Draw two unirrors inclined at 30° Draw a ray striking one mirror in a direction parallel to the second mirror, and find if after several reflections the reflected ray becomes parallel to either of the mirrors -Two mirrors are blaced at right angles A ray of 1 ght strikes one of the mirrors at any angle, is reflected to the second m eror, and again reflected Prove by drawing and by geometry that the ray after this second reflection is parallel to its original direction .- Two mirrors are inclined at 450 A ray strikes one at an angle of 2210 Find by drawing and geometry the direction of the ray after four reflections -A glass flame is enclosed in a lamp which consists of

four vertical square sheets of glass in the shape of a box. How many primary and how many secondary images will be formed?— Two mirrors are inclined at 90% A ray strikes one of the mirrors at an angle of 45° What in the direction of the ray after two reflections?

REPLECITOR PROM CORVED SORFACES

Spherical mirrors —Connavo or convex centre of curvatore, centre of mirror, princ pal axis principal focus and focal length Real and vittal foci Pathiaken by rays (1) passing through the centre (2) Rays parallel to principal axis (3) Rays passing through the principal focus. D stances how measured, positive and negative

Concave mirror -The appearance, position and size of the image of the object placed at different distances in front of a concave mirror (Exp 18, Sinclair, Gregory and Simmons, sec 41 (e) (2), Watson, Exercise 107). To find a relation between the distances of an object and the distance of its image from a concave merror (Exp 22, Sinclair, Gregory and Simmons Sec 41d) Conjugate foot (Gregory and S munons, sec 41h) To find the radius of curvature of a concare surror (Exp 20, S nelser first, second and third methods; Exercise 1, Exp 22, Sinclair i Spherometer method, Exp 21, Sinclair) To find by drawing, the nature and position of the image in a concave mirror (Exp 23, Sinclair) To find a relation between the size of an object and of its image in a concave mirror (Exp 26, Sinclair; Gregory and S mmone, sec 41f) Verify by drawing to scale Reflection from a large reflecting surface. Cow's foot in the milk The convex mirror

To find the radius of curtature of a convet

murror (Exp 24, Sinclair, let and 2od methods, Exp. 187 Gregory and Hadley, Gregory and Simmons, soc 426) To find the nature and position of the image in a convex mirror (Exp 25, Sinclair) To find by drawing the relation between the size of an object and its image in a convex mirror (Exp 28, Sinclair) Comparison and contrast of images seen in a place mirror, a convex mirror and a concave mirror Numerical problems

PROBLEMS

Draw graphs of the corresponding values of U and V and of 1/U and 1/V Find from the general formula for mirrors where the mage in a plane mirror should be -A mirror is silvered on the front and so cannot be touched with the fingers. How would you find out whether the mirror is plane, concave or convex !- In a concave spherical mirror, where must the object be placed so that image will be situated half way between the centre of curvature and the principal focus !-- Why does the nose appear relative ly large in comparison with the ears when the face is viewed in a convey mirror ?-Can a convex mirror ever form an inverted image? Give reasons for your answer

REFRACTION OF LIGHT REFRACTION AT PLANE SUBFACES

Refraction at one plane surface General idea of deviation experienced by a ray of light (Gregory and Simmons, soc. 43). To study the laws of refraction at a plane surface and to find the index of refraction (Sinclair, Exp. 30, Gregory and Simmons see 41; Watson, Ex 109; Grew and Tatnall, Exercise 80; Geometrical construction for refraction at a plane surface. To find the effect of placing a slab of glass across the path of a ray of light (Sinclair Exp. 30).

31, Sinclair, Gregory and Summons, sec 45c. Watsorf, Ex 110, Crew and Patnall, Ex, 83) and hence to find the index of refraction of glass. Observe that the amount of shifting varies with the angle of incidence and the thickness of the slab. G-ometrical construction for refraction at two planes surfaces.

To find the under of refraction of a liquid (Gregory and Summons 45s, Exp 32, Sinclar, Lipte 177, 180, Gregory and Hadley) Rerotives under of glass, by locating the image due to refraction at a plane surface (Gregory and Hadley, Er. 181, Gregory and Simmons, see 43b) Broken appearance of ruler, apparent bosition of stars.

Refraction through a prism -The angle of the prism, base, spex, edge, light always refracted towards the thick part Image of an object viewed through a prism always shifted towards the edge. That portion of the maze towards the edge is tinted violet while the portion towards the base is tinted red Reserve explanation Pen method of tracing deviation by a prism (Exp 33, Sincle r , Gregory and Simmons, sec 46a ; Watson, Exercise 111, Crew and Tatnall, Exercise 89a) Note that the path of the ray within the prism is not necessarily parallel to the base and the deviation varies with the angle of incidence Repeat experiments with prisms of different angler, different kinds of glass and establish that the deviation depends apon the refract ng angle ; material ; angle of incidence, nature of the incident light, Minimum deviation, angle of incidence equal to angle emergence To and the path of minimum deciation through a prism (Exp. 34, Sinclair, Gregory and Simmons, sec 46b) * Calculation from data obtained of the refractive index of the prism. Graphical construction for solution of problems on prisms, (Critical angle determination of the critical angle for glass total internal reflection, mirage geometrical construction for critical angle Succlair, Exptr 35 30, 37, Gregory and Hadley pp 262 263 Prismatic compass Luxfer Prisin glass)

Penning

DODDERG

Explain with the aid of a diagram, how a fish sees the mage of a tree on the bank of a river -Why is a metallic mirror or a glass slab with darkened bick better than a glass mirror with silvered back, for experiments to reflection?-How do you account for the quivering motion not ced above an ordinary flame !-- Explain the twinkling of the stars -Find the effect of placing two slabs of glass in the path of a ray of I ght -Find the effect of placing different media in the path of a ray of light - Why do clouds appear black !-Why is the deep sea almost black !- Hold a lighted candle in front of a thick sheet of glass and note the images produced when viewed obliquely Make a drawing to account for their formation -- haplain why a mixture of two transparent liquids is sometimes opaque Why is a piece of writing paper white, and how can it be made transparent -A glass rod is immersed in a beaker of Canada baleam How do you account for the fact that it is invisible?-A person looking at a fish swimming in a tank at an aquarium, is surprised to see two Explain this with the aid of a drawing .- A glass tumber is half filled with water, and wrapped with tissue paper so as to leave a narrow gap between the ends of the paper. When the slit is placed before a burning lamp in a darkened room, two images are seen on the other side. Why !-A bright bead is placed at the bottom of a basin of water and a person stands in such a posit on

that he can just see it over the edge of the basin While he is looking, the water is drawn How will this affect his view !- A thick layer of a transparent liquid floats on the surface of water Trace the course of a ray of light from an object immersed in the water through the firsting liquid to the air -The minimum deviation produced by a hollow prism filled with a certain bound is 30° If the refracting angle of the prism is 60°, what is the index of refraction of the hand!-Draw normals to the surfaces of a prism at the point of incidence and emergence and find the 10 lex of refraction of the incident and the emergent ray Is there any relation between the answers ?- Find the connection between the angle of refraction at one surface of the prism and the angle of the prism when there is minimum deviation - Exercises 19, 20, 31, 32, Gregory and Hadley, Chapter xx

REFERCTION AT SPHERICAL SURFACES

Convex and concave lenses Converging lens Principal focus, Principal axis, optio centre, focal length Images, real, virtual. Simple means of distinguishing between converging and diverging lenses The contex lens -To find the position and size of the smage formed by a convex lens (Lxp 39, Sinclair Crew and Tatnall, Ex 92 a, b, c, Watson, Exercises 118, 119) Comparison with results obtained with a concave spherical mirror Direction taken by rays passing through the centre of the lens, parallel to the principal axis, and proceeding from the principal focus. Rule of signs, Construction of diagrams affording information as to position, nature, and size of the image. Barning glass; Photographic camera and object glass of telescope; Focometers; magic lautern, object glass of microscope; light house lenses; magnifying glass, eyepiece of telescope and microscope. Examination of each of these instruments. Illustrative diagrams. Relationship between the focul length, and the position of the object and the image established. (Crew and Tatuall, Ex. 92d ; Sinclair, Exp. 41. second method.) Conjugate foci. To find the focal length of a convex lens. First method (Exp. 41, Sinclair ; Watson, Ex. 117) Second method. (Exp. 41, Sinclair : Gregory and Simmons, Sec. 48a; Crew and Tatuall, Ex. 92e.) Third method (Ex. 41. Sinclair : Gregory and Simmons. Sec. 48 h : Watson Ex. 121.) Fourth method, "If a telescope is accurately focussed on some clearly marked object, as the side of a house a mile or more distant, it may be said to be adjusted to view parallel rays of light, since rays coming to the eve from a point that is far distant are sensibly parallel. If rays diverge from the focus of a converging less, and pass through the lene, they issue parallel. Hence a telescope adjusted to parallel rays is adapted to view light that comes through it through a convex lens if it emanates from the forms of that lens. These considerations suggest the following :- Focus the telescope on some distant object. Now place the lens in front of the telescope, and look through the telescope and lens at a printed card fastened to a vertical screen. Find by trial a position for the screen at which the words are most clearly seen. Measure the distance of this screen from the lens. This will be the focal distance sought. Obtain the mean of several trials and compare with that obtained by other methods."

To find the magnification produced by a convex lens. (Exp. 42, Sinclair; Watson, Ex. 129; Gregory and Simmons, Sec. 49c.)

To find, by drawing, the position and size of the image formed by a convex lens. Astronomical telescope, (Exp. 48, Sinclair : Watson. Er. 123 : Gregory and Simmons, sec. 50 : Crew and Tatnall, Ex. 931 Compound Microscope (Ex. 47 Sinclair.) The concave lens t-To find the position and size of the image formed by a concave lens (Exp. 40, Sinclair : Watson, Er. 122.) Compare results with those obtained in the case of a convex mirror. To find the focal length of a concave lens. (Exp. 44. Sinclair, first and second methods, also exercise on same ; Gregory and Simmons, sec. 51.) To find by drawing the position and size of the image formed by a concave lens. Galilean telescope (Exp. 49, Sinclair ; Watson, Ex. 123.) Field and opera glasses. Power of a lens. Dioptre : positive and negative : contrast with signs of focal lengths.

tive: contrast with signs of focal lengths,
The eye, Sclerotic membrane, Cornea, Crystalline lens. Aqueous humour. Vitroous
humour. Iris, pupil, reting, optic nerve.

"To prove that images formed on the retina are inverted (Exp. 21, Gleszebrock.) To illustrate the process of accommodation in the eye. (Glea-brock, Exp. 23.) Short sight or Myopia. Use of concave lons in correcting short sight. Long sight or Hypermetropia, use of convax lenses in correcting long sight. Problems of a numerical nature; Loss of accommodative power. Near point and far point.

* Determination of near point and far point (Exp. 193, Gregory and Hadley). The Visual angle. * Magnifying power of a lens or a telescope (Millikan and Gale, Exp. 47; Chute problem 80. Crow and Tatnall, Ex. 93.)

PROBLEMS.

Problems of a numerical nature on lenses generally. Draw a graph of the corresponding values of U and V also a graph of the corresponding values of 1/U and 1/V .- If one half of a convex lens be covered with an oneque card, what will be the effect upon the real images produced by it? Test your answer by experiment -A photographer finds that the deared mage of a building more than covers tle area of the plate to be used How can the aize of the image be reduced to fit the plate ?- The picture projected on a screen by a projecting lantern is found to be too large, which way most the instrument be moved in order to reduce its size?-Why is it necessary to focus a telescope or a microscope upon the object to be viewed ?-The image on the retine of a book held a foot from the eye is larger than that of a house on the opposite side of the street Why do you not judge that the book is actually larger than the house ?- Explain why a terrestrial telescope shows objects erectrather than inverted -Compare by geometrical construction, the focal lengths of two convex lenses of the same radius of curvature, one being of glass, the other of diamond -If a simple camera should be made out of a box and a double convex lens of 12 mches focal length, (a) how deep must the box be in order to give an image of the sun, (b) what should be its depth in order to give an image of a small object which is 10 ft distant from the front of the camera? (c) if the centre of the image of a flat object is in good focus. how must the distance from lens to rear of box be changed in order to focus the edges of the image ?-In what respect does Galileo's telescope prove more useful than the terrestrial telescope? Give reasons for your answer

DISPERSION OF LIGHT

To show that white light can be decom posed (Exp 51, 52 Sinclair, Gregory and Simmon, sec 52a, Watson, Er. 112) Describe the coloured band, a rectangle rounded off at the ends due to the overlapping of a number of circular images of different colours Image of a lat has seen through a primu (Watson Er. 113) Describe the appearance of the slit, Frplain by means of a disgram why the slit appears to be insted violet forwards the edge of the pram Increase of disperaive action (Gregory and Simmons, sec 52b) Spectrum, spectroscope
R composition of white light from its

constituents (Gregory and Simmons, sec 52c-Sinclair, Exp 53) Newton's colour disc. (Cf Cinematograph) continuous and bright line spectra spectra of glowing solids, fish tail burner, caudle light, white hot crucible Contrast with the spectra obtained with Chlorides of Sodium, Lithium, Thallium (Gregory and Simmons, sec 54)* Effects of the absorption of light Selective absorption with reference to dark lines in the solar spectrum (Watson, Er 114, 115, 116, Gregory and Simmons, Sec 56 Crewand latnall, Ex 94)* Rainbows Colour of transparent bodies Absorption and transmission of rays by Oxford blue solution, Carbon disulphide Potassium Permanganate, Potass um Bichromate, Colour of opaque bodies, absorption and reflection of rays Selective absorption and transmis 6100 Mixtures of pigments.

PROBLEMS

A white cross on a sheel of black paper is examined through a magnifying glass. Explain why the image is coloured at its endy, and describe the nature and position of the colours.—What kind of a spectrum would you expect to obtain by dispersing the light from a live coal by a prism? If you look at a broad sheet of white paper through a prism,

it will appear red at one edge and blue at the other but white in the middle. Explain why the middle appears uncoloured .- Some class houses in which ferns are grown are constructed of green glass. Describe the appearance to an observer in such a house of a lady in a red costume carrying a book with a bright blue colour. Give reasons for your answer .-- Why does a field poppy appear red? What experiment could you arrange to make it appear black !- Bright sonlight falls obliquely upon the surface of the water contained in a white china basin; a penny is held near the surface of the water and in such a position that its shadow falls upon the bottom of the basin. Parts of the shadow are found to be edged with colour. What colours may be observed? On what part of the shadow is each to be seen ? How do you account for the colours !- It is sometimes said that "red glass colours the sunlight red." and that "blue glass colours the annlight blue." Mention facts or experiments which show that this is not accurate Put the statement in a more accurate form. A rod painted half blue and half red is viewed through a prism placed with its edge parallel to it. Describe the appearance presented by the rod and give any explana. tion that may be necessary.

LIST OF PRACTICAL EXERCISES .- (Quantitative).

- 1. Inverted images produced by a pinhole.
- 2. Formation of shadows.

k

- 3. Measurement of the candle power of a lamp.
- 4. Pin method of verification of the laws of reflection.
- 5. Determination of the position and size of an image in a plane mirror,

 XIX

- * 6. Measurement of the angle of a prism.

 * 7. Determination of the number and position of images formed by two inclined mirrors.
- To find a relation between the distances of an object and the distance of its image from a concave mirror.
- 9. To find the radius of curvature of a concave mirror (any three methods).

 10. To find the radius of curvature of a
- convex mirror (two methods).

 11. To study the laws of refraction at a
- 11. To study the laws of refraction at a plane surface.
- 12. To find the effect of placing a slab of glass across the path of a ray of light.
- 13. To find the index of refraction of a liquid (two methods).
- 14. To find the index of refraction of glass (two methods).
 - 15. Pin method of tracing deviation by a prism.
 - 16. To find the path of minimum deviation through a prism.
 - *17. Determination of the critical angle for glass.
- 18. To find the position and size of the image formed by a convex lens.
- Relationship between the focal length, and the positions of the object and the image established.
- To find the focal length of a convex lens (three methods.)
 To find the magnification produced
- by a convex lens.

 22. To find the focal length of a concave
- To find the focal length of a concave lens.
- *23. To find the magnifying power of a lens.
 - 24. To fit up an astronomical telescope.
 - *26. To find up a terrestrial telescope.

On the supposition that 60 periods of 60 minutes each are available for the study of light about 18 double periods may be devoted to practical work, 12 periods to demonstration and discussion of results, and 12 to questions and the marks register Special attention should be paid to neatness and accuracy of diagrams and to the determination of the position of virtual images by the pin and parallax methods Oaly such portions of the subject as are well within the grasp of the average High School boy have been included Portions marked with an aster sk may be reserved for quicker pupils A qualitative study of the dispersion of light is recommend 60

K S PARABBARMAN

CHEMISTRY AND THE INTER. MEDIATE COURSE

BY A LECTURER IN CHEMISTRY

T has often been deplored that, instead of introducing Elementary ideas in Chemistry to cultivate rational experimentation, the Elementary and Intermediate text books in Chem istry contain mere emperical and superficial facts The Elementary text books written for the same class in Arithmetic or Algebra contain the principles and the students acquire ability to reason out in those subjects

The present day text books must strive at the idea of treating the subject in such a way as to enable the student to reflect on the available data. By this method of treatment the thinking faculty of the student is increas ed by his own individual efforts Knowledge obtained by one's own individual efforts is more valuable than that gained by memorizing certain facts in Chemistry, provided the former te directed along rational lines,

who have studied (1) Algebra, Geometry and Physics (2) Algebra, Geometry and Trigonometry, (3) Algebra, Geometry and Vernacular and sometimes (4) History and Vernacular with high marks in Elementary Science in their School Final Course are admitted In a class of more than 100, it is often difficult to find more than ten students who have studed Chemistry in their School Final Course Chemistry taught to them as one of the subjects in Elementary Science varies in quality and quantity—more or less memoriza tion of the preparation and properties of some elements So that a lecturer in Chemistry has to begin his course of lectures to a class of students who have no proper grounding in Elementary Science It is merely a shear waste of time to introduce abstract ideas without a previous survey of general knowledge in Chemistry from which generalization It is the scientific method that can be drawn must be instilled in the minds of the students and they derive more benefit from it than from mere facts By this method the student gets accustomed to reasoning which is of The historical mestimable value in education method of treatment is excellent masmuch as generalizations have been developed from a contemplation of facts If such a method is followed although the facts in Chemistry are nearly forgotten in after I fe, the scientific method is retained as a permanent att tude of the mind which is a source of "success in business or in the profession and often even the mere making of a hyelihood " Students are apt to lean upon the anthority

of statements and opinions in the text-books

even when they are actually experimenting

Any deviation from the code often puzzles them so much that they make the experiments

In the Intermediate class (Gr 1), students,

more a mechanical process, instead of interpreting the results and extracting all that they can teach. Experiments should be followed by accurate observations; and experiments and observations alone do not develop scientific faculty. They should be coupled with rationalization but imperfect observations lead to incheste rationalization. It is in the laboratory that a student learns the habit of "self reliance, resource and initiation." An elementary student of Chemistry must memorize certain facts ; but to discriminate the relevant from the irrelevant rosts with the lecturer. The thinking faculties in a student must be created from the very beginning and wherever possible the scientific theories must be introduced. It is a mistake to think that the scientific theories must not be introduced in an elementary course and it is wrong to introduce abstract ideas and theories without proper grounding. Some lecturers seems to treat the systematic Chemistry and Physical Chemistry strictly apart. The result is that instead of rationalizing the descriptive and practical work on the new and modern lines the students find it a burthen and derive no benefit from it.

"The intellect is perfected not by knowledge but by exercise." The brain must be trained to think clearly and logically, and the hands to do their work skilfully and accurately. The lecturer has the grave responsibility of equipping his student with these essentials. It is only the lecturer who can find out the desideratum of his students and can give them suitable exercises to train them in the new way. Chemistry is a progressive science and there is no virtue is closely following a certain book or the notes of a particular lecturer. Let not a lecturer be terribly afraid of what he may call 'innovations,' the pure

advancement in the treatment of the subjecttheoretical and practical.

The practical work must be correlated with the lecture. Although much is said on this principle, the speakers themselves do not seem to follow this principle. If the laboratory work is conducted by different people with no instruction from the lecturer, the work of the lecturer to 'equip his students' is much hampered instead of being reinforced.

CHANGE OF STYLE IN VERNA. CULARS."*

PART I

1. Nature of the problem. - The problem of this paper is directly suggested in these words of Profi Henry Sweet. He says: "The distinction between the literary and colloquial form of the same language has considerably complicated the problem of learning languages. . . In many oriental languages the divergence is so great that the colloquial is no longer a mere variation of the literary form, but the two practically constitute distinct mutually unintelligible languages." An Anglo-Indian selected Tamil for examination in the compulsory vernacular test. இருக்கிற இப்பொழுது and others of the same type were some of the words taught in the course of his first lesson. The first is said to signify the English word 'is' and the second ' now.' He could not underband the genius of the language which requires innumerable sounds to signify the sense of the stogle English sound is. He thought that he will be far from getting the required qualification if he continued this any longer and tried his luck with a North-Indian language with better success, 'You all know that the fault is not so much in the nature of the language as in the form of the language presented to him. For in ordinary conversation simpler words than these in the way of contractions of the same, or corruptions as the learned call, are used to

[·] A paper read by Mr. K. Venkata Row, M.A. at a meeting of the Teachers' Association, Teachers' College, Baldapet,

signify the ideas 'iz' and 'now'. The difficulty less in the divergence between the language of the books and the language of current speech.

2. Brief history of the movement -With regard to Telugu the same difficulty must have been felt by one or two strangers to the language Chief among them was Mr P. T Sciniyasa Lyengar who is the head of a college where Telagu forms the medium of instruction. He must have seen an uncompromising divergence between the forms used in books taught in the class room and the forms with which he grew familiar in his social intercourse with respectable people of that country. He must have felt considerable difficulty in reconciling the linguistic atmosphere of the class-room with that just outside The medium of instruction, he thought, was an difficult that the interpretation of the language rather than the elucidation of the scientific matter of the book formed the sole occupation of the teacher. As the head of that matrituden he could not tolerate this waste of time and energy on the part of the teacher and the taught and took the effective step of dispensing with all text books for the communication of knowledge and substituted oral sustruction by the teacher in appropriate language approximating to what was spoken outside. He did not stop with setting matters right in his own school but to give the benefit of his observations to the world at large, published a pamphlet entitled " Death or life-a plea for the vernaculars' This new creed -as it is natural with snything new-was first confronted with ridicule which gradually developed into active opposition from the people of those parts. Fortunately for the movement, just at that time Mr Yates was the Inspector of Schools for the lai Girele, perhaps experiencing the same difficulty in connection with the secondary and elementary achools with which he had to do much. He immedistaly caught the spirit of the pamphlet and became the apostle of this faith. He rapidly introduced this way of using language for teaching purposes over the entensive area of three or four Teluga districts under his jurisdiction Each villege in those parts was acquainted with the necessity of this change Under the authority of their educational head they did not healtatomat least outwardly to introduce thurchange. But even then there was a slight murmur among us as to why people completely

alien from our language should interfere with it. We did not recognise the fact that foreigners or strangers to the language are placed an a better position to note such things than the people who, with some difficulty, have fallen into the habit of using the two forms of the language. This prejudice against the originators of the movement was transferred to the movement itself A hue and cry was raised that these two people advanced from the corruption of the methods of education to the corruption of the language of the country. As teachers we happily realised what the corruption of the methods of education led us to and hereafter we should attempt to realisa the results of the so-called corruption of the vernacular languages. The movement progressed further Very soon it was brought to a crisis-People of immense lessure and life long activity in linguistic work like Measrs G V. Ramamurti and G V Apps Row supported the movement. New books on the reformed lines were written in the Telugu language. These books were prescribed as set books to be studied for the purpose of public examinations This recognition and passive support of the authorities brought the whole affair to a crisis and active opposition in the way of public meetings, resolutions and deputations was then rescried to This opposition is, as a matter of course very healthy and necessary to act as a check upon any undue radicalism of the enthusuals. It is a sure help to clearly bring out the real nature and extent of the change required and it is believed that it will end in a compromise beetwen the two modes of thought by blending the best of both sides in one common cause. The aim is to have a reconciliation between the spoken and the written languages by making the one closely approximate with the other-In dealing with the question one should raise oneself from the polemic to the scientific aspect of the The consideration of the question is to be based upon scientific principles relating to language in general, the spoken language, the written language and the relationship between these two.

8 Language and its function.—Language consists of two elements—thought and its expression. It is the embodiment of thought and there can be no thought without language. Man is endowed with the power of thinking and the power of resconing. These thoughts and generalizations are to be

expressed in some sort of symbols. The symbols may take the shape of signs and gestures or the words of articulate spreech as the result of the modulation of the voice. But vocal language is considered more perfect than any other kind of language, as being better adapted to express the manufold ideas of man's growing intelligence. It is also less arbitrary and conventional than any other form of expression. Gesture language is universally intelligible, but is can not be used in darkness or when men are not face to fage. As such its scope for expression is after all very limited. In preference to all the rest, vocal language has, therefore, the advantage of being made universal in limited areas. The essential thing about a lauguage is that it should be " an instrument for the communication of our thoughts to others." Communication of thought involves the elements of society and man is always a social animal so far us language is conearned. " Language is a social product, at once the creation and the creator of the society. It has come into existence by the needs of developing society to satisfy the ever-growing wants of daily life. It is the natural product of a society, the living expression of the mind and spirit of a people ever changing and shifting, " says Sayce. The language used by a society reflects the amount of thought possessed by it. Articulate sounds formed the chief means of expressing current thought at any time. For a long time the past was left unrecorded, but when the art of writing was invented attempts were made to preserve the thought of passing ages in these new symbols. Therefore writing was used to symbolise thoughts indirectly and its office is but secondary as forming a symbol of the spoken sounds, the real and original means of expressing thought. This leads us to infer that there is a written language because there is a spoken language previous to that.

4. (a) The spoken larguage—its nature.—We are tharsfore primarily concerned with the upoken becomes the language which forms the basis of the other. The origin of language implies that the spoken should coven farst. A child is capable of uning it. A savage also can use it. Even a circlised man trying to unstatute a certain kind of artificiality in his speech for the sake of politoceae, in his natural moment as when be ja, ja passion.

spontaneously reverts to his spoken tongue to express his ideas. Language in the form of speech sounds was in existence long before the art of writing was invented. The faculty of speech with most human beings, is natural and inevitable Physiology as well as Psychology require is in man. The innuts love of imitation, the necessity of making one's wants known, the healthy desire to exercise lunes, and the natural wift of articulation are some of the causes for the origin of speech faculty. Language, in this very form, is developed later by the society as a whole Wyld says, "Spoken langue age is the natural expression of the personality of living human belogs: from the nature of the case this must vary along with the change of their mental and bodily habits. A nation, a small community or an individual, is continually gaining new experiences, feeling new aspirations, discovering fresh needs. All these conditions find expression in their speach."

(b) Change in the spoken language.- This close association of the spoken language with the society' gives it a new and interesting aspect, the aspect of daily change and progress, the aspect of historical and scientific treatment. Thought is infinitely. progressive and has a constant but ever-varying evolution. It is conditioned by the uniform laws of outward nature subject to the adaptation and modification of human intellect. Likewise is it with language which is but an expression of this thought, the external symbol of the inward idea. Language undergoes a change in its sound as well as sense. This change is partly caused by the temperament of the individual man, as conditioned by his faculty of imitation, a wish to be clear and emphatic, and a tendency to be lasy and avoid exertion. Besides these there are other natural causes such as climate, food, occupation, peographical boundaries, contact with foreign nations. development of civilisation, playing an important part in the change of language. Individually or collectively a mumber of causes act upon language slowly but surely and subject it to a process of aimost daily change. All these causes can be summed up in "the necessity for transmission from month to month." Without such a transmission there can be no change and the existence of such a change clearly shows that language is primarily and mainly used for the purpose of daily communication by means of speech anunds. Therefore, as Sweet says, "The main axiom of living philology is that all study of language, whether theoretical or practical, ought to be based on the spoken language."

(c) Superiorally of the spoken form -In the study of languages this one point is generally missed and popular misconceptions about the spoken form of a language are respected. This is the case not only in the Indian languages but also, as Sweet says, "In European languages when the difference between the literary and collectual is much less than in the oriental languages, most grammarians tacitly assume that the spoken is a mere corruption of the literary language." This is true of the English language too For Wyld says, " If it is maisted that more attention should be paid, in the teaching of English, to the spiken language, there is an outery to the effect that English literature is one of the noblest of human achievements, that the ordinary speech of children and even of grown-up people is full of valgarisms, mistakes in grammar and solecisms of every sort and that by dwelling apon English as it is spoken, these errors will merely be confirmed " With regard to Phonetics. a science of the spoken sounds, a similar misconception exists "It is still regarded by the majority of educated persons as either a fad or a fraudpossibly a pions one,"

(d) Correctness of the speken language - This leads us on to the question of fancied errors-popular misconceptions-of the spoken language. If the path of development of any language is well considared, from the scientific point of view, the terms mistake, pulgaresm, corruption, have no meaning at all. One who is acquainted with the processes of linguistic change and their causes will readily understand that each form has its own place in the general system of language. We are purely concerned with the facts of any larguage and the endeavour is to form a clear conception of what is and how it arose from what was. Wyld says, "Whatever exists in the natural speech of a community at a given period is right for the speech of that community at that particular moment. . . . Any manner of speech which is foreign to the natural speech-habit of a community at a given period is wrong so far as the dulcct of the moment in that particular commonity is concerned. The merits of a language are to be judged according to its qualitates as a medium of expression. From a societific point of view there cannot has better criterion than that for the correctness of a language. Let for practical purposes an artificial and control procured and retrogrand as the correct form recognist of as the correct form of processing the control processing the correct processing the control processing the correct processing

5 The written language - Side by side with the spoken language the written language or, as it is generally known, the interary language finds its existence as a matter of pecessity. It is the indirect symbol of the thought to be expressed Spoken language can represent only the current thought, but the written language is the record of the past thought of a community Since the sum total of such a record of any country goes under the name of its literature its language has come to be called literary language. The same respect which is attached to anything of the past ages is given to this language and it has come to be considered the original, correct and standard form of language Naturally, the moment language is represented in written symbols, it attains a certain degree of finity and permanence in all directions ... sound, sense, grammar, vocabulary. It is full of superfluous words and phrases which the spoken language generally gets rid of People have fallen " into the babis of considering language as something cut and dried and fixed once for all in a definite mould.' They are " apt to forget that all literary languages are to a certain extent artificial products. They are deliberate and bound by tradition and they lack the apontaneity of unstudied natural utterance." As Paul (Strong) says the written language " is naturally so abstraction and one of the first order. It is not a complex of real facts, real forces but merely an ideal norm prescribing rules for speech" " It is nothing but a rigid rale which would bring linguistic movement to a stand still, if it were always strictly carried out, and is only compatable with change in so far as its authority is disreparded."

6. Connection between the spoken and written language -- However, there is always a close connection between the spoken and the written language. Sweet says "it is the spoken which is the real source of the literary language. We may pick out the most far-fetched literary words and forms we can think of, but we shall slwavs find that they are derived from the colloquial speech of an must indeed in its first beginnings be nurely colloquial." As such the written language is in all cases behind the spoken in development " in the sense of being more archaic and generally less flexible and adaptable." In the case of a language which is no longer spoken, is, a dead language, there can be so further change or development in its written form. It is because "the literary form of a language which is still apoken, is forever receiving fresh life from the collequial speech. New words or expressions of the spoken language are gradually transferred to the language of books and there they remain." This close inter-connection hetween the two forms of a fanguage does not allow the written form to become fixed unless it is consciously and scrupulously neglected. This connection, if allowed to come into play, keeps the written form ever changing and provided with new life which new life comes primarily from the anoken language. This enables the two forms of the language age to be fairly approximating in all respects at any stage of their growth. This is what ought to bappen in the natural course of events and what has hoppened in many countries like England where conservatism is not excercised in the wrong direction as it is done in this country. For a long time past for want of a concentrated public opinion in matters like this, individuals with a single bent of mind controlled the literary and the linguistic operations of most communities of this country and the result is that such a divergence of the two forms of language has been created as can not be removed except by tremendons effort

PART II

7. Introduction.—After seeing why there should be this close approximation between the two forms of language we shall try to see why there is this divergence in at least one of the vertaculars.—

Telogu, my mother-tongue—and suggest soms remedies to make up the breach. Here I don't trouble you with the point as to how far in, the extent and character of the divergence between the two forms, it vaists. Those of you that motive the properties of the motive that the product of Mr. G. V. Rummuriy's Monorendam on Modern Telogue where he treats of this difference in point of pronunciation, decleasion, conjugation, vecabulary and dilom.

8. (a) Literature of Telugu: general .- To understand the reason for this difference, it is necessary to consider but briefly the development of literature in the Telugu language. A student of English literature comes to the end of his applient with a definite idea of the systematic development of that literature in all its aspects. He can see the regular growth of crude forms into perfect types and in each case exactly account for the development. He can clearly gange the influence exerted upon this national work either by individuals or foreign nations or certain national morements at home. social, political or religious. The elightest change either of the form used, material utilised or metre adopted can be accounted for, in the light of one or other of the above influences. It is so scientifically historical in its development that M. Jessurand proposes to call this national correct of intellectual activity not as it is popularly called the history of English literature, but the literary history of the English nation. Individual authors, as a result of their genius, provide the readers with some kind of novelty in each of their works and at the same time keep up the barmony with the national spirit. In this one can fully realise the true function of literature, vis. to embody the growing aspirations of the nation in its record. This unity and gradual flow in the literary current can be better appreciated by contrasting it with what Telugu language represents in the field of literature. The extent literature of Telugu begins abruptly. It has no development, no beginning, no middle, no end, to be so called. It has only one of these whichever you choose to call it.

(b) Ferst period—II the Telugu translation of Makabharata begun by Nannaya in about 1020 A. D. and completed in the course of 300 years afterwards by Tikkana and Yerrana. is the first work, and till very recently or even now by many, considered to be of such a perfect type in point of language, more and grammanical applications, that it is suffict to violate them to any extent, we can say that the Toluga therature oxeded where in the pur Tree three poots are profound Sazakrit actobars and protest of a very high order of mer. Trey did all that they naturally should do under those orcean stances. They showed their individuality by freely altering the matter as well as the manner of the original. Their Sawakrit scholarship is seen in the nature of the recolaborary sadely such of them

Naunaya used & Sanskrit and & Tologu words Tikkana used & Sanskrit and & Pelegu words Yerrana used & Sanskrit and & Telogu words.

The second Epic Ramayana was similarly trans lated by Bhaskara and other poets. It is also full of Sanskrit words and samasams and is acknow ledged by rhotoricians as a standard work Considering their scholarship, the Sanskrit original which they were translating and perhaps the poverty of the Telugu language in the early days this abnormal borrowing of Sanskrib words is excusable in them But there is one unpardonable mojury done to the Telogu language by some of this age. Even in this very early stage grammars books of Proceedy and Rhetoric, codifying the usages of this early work, were produced, as some say by Nannava himself, or at any rate by a group of m nor literates of that time. It was parsively as well as taculy imposed upon subsequent writers that il ere should be no violations from these acknowledged usages The cart is once for all fixed before the horse and no further movement is made possible excepting the impatient stamp of the boof and eager aids glances of the animal anxious to move on naturally

(c) Assend period—A second group of posts in the 14th and 15th centures, come round Sinnatha and Polsanas Sinnashas in his work similar to has predecessors but Polsana is less of a scholer and more of an individual potter genies. The result of it is that his translation of Bhoquauta did not satisfy the relevoreness according to the roles already framed and is discarded as a standard work. It is even considered by some as a beap of errors and all those that are guided by it are characterized as the posts (Kivalia).

(d) Third period .- Another epoch of poetry commences with the work of Kristnadevarava and the illustrious group of poets that surrounded him (about 1500 A D) Hitherto literary work consisted merely of translation of Sanakrit classics. Peddana struck an original path in literary composition. He used his imagination in the construction of a good plot on the basis of an original Poranic story and wrote the first probandham in Telugu language. In the manner he is bound down by the rules aircady laid down One of he contemporaries Bhathimpril smitsted Peddana in this kind of work and managed the story, construction of plot and the style of writing in a more mechanical way. Poets of subsequent times found it very easy to closely imitate this last work and they have been doing it since then An original fixed in all its aspects is laid down and it is closely copied in accordance with the models set and the rules framed in the very dawn of literature

(e) Its relation to the present question -So one can see that there is no noticeable deviation from the standards laid by the original writers There is no living national spirit embodied in the literary work. Correspondingly there is no marked change even in the language used I am of opinion that the works are so storeotyped that there is no need to read more then a few books to form an adequate idea of the whole literature. No doubt here and there works like that of Pingali Surance display wonderful capacities of original plot-construction, development of character and smoothness of style. One pittable feature to be noted in most of the works is that the individual genius of writers faintly appears now and then and seems to be stifled by the set rules by which they are guided. So much about poetry Prose of any form was not written till very recently and we may think it a blessing that there was no prose at all For in prose, the limitations required by proceedy being removed, there was a free play in the length of samasams etc., used The author of a prose Ramayana in very recent years in the preface mentions that the purpose of his work is to make it easy and intelligible to women and children and obviste the necessity of interpreting Pundits of the Telugu Ramayana in poetry But some of the first few pages that I reed were not easily intelligible even to me. However the writer

is to be congratulated for realising that there is a necessity of such easy proce renderings of Telugu poetry. Another chief department of modern literary work is translation of Sanskrit dramas, etc. One can easily see that most of them are more of transliterations into the Telugu alphabet than translations into the Telugu language. Here I wish to summarise some of the persistent evils of the modern literary compositions as a result of this false respect to ancient literary models. They are, the use of archaic words, plentiful nasge of Sanskrit words, samasams and sandhis, use of obsolete grammatical forms and constructions, set descriptions of scenery and situations in set phrascology, the use of stereotyped metres and some others necessarily attending upon a spirit of conservatism Hereafter I should like to suggest some remedies to counteract these evils and how it is necessary for us as teachers to do it.

PART III,

9. Importance of this question to teachers .- The inter connection between knowledge and language has been but recently well impressed upon your minds and you must realise that you are the main imparters of knowledge. Whatever be the national requirements of literature, the business of laying the foundations of the nation, the responsibility of training children to that ultimate goal we have deliberately, with some personal sacrifice, chosen to be our part of work. We are expected to do it mainly by imparting suitable knowledge to the children entrusted to our care. For this we require good text-books and the want of texts suitable for beginners is keenly felt Mr. G. V. Bamamurti says: "I can openly declare that my diligent search among many Telegu books failed to find a single story book which a child of eight years could read without the belp of a teacher, while there are thousands of such books in English, French and other European languages." The pride with which the other day the Kindergarten Superintendent spoke of Kinling's Just-so Stories and Stevenson's Child's Garden of Poetry as being the best of any European languages is really enviable. But for Tamil she has to make her own primers for infant classes and her reason for doing it is that there are no suitable books in the language. In this connection Sweet says, " The main

foundation of language, study will be connected text, The reader will beneder the beth centre of study, to which gramman, dictionary and other helps abould be strictly subordinated. It is only in connected text that the language itself can be given with each word in a natural and adequate context."

text." 10. Text-books.-Here I wish to formulate certain principles for writing text-books which I mainly borrowed from Sweet's Practical Study of Languages. The different kinds of texts should be written from the point of view of their fitness to serve as means of linguistic training. There should be a regular sequence in the series of such books, Books fit for the juveniles are to be concrete, objective and matter of fact As an advancement upon this, books for adults are to be abstract, subjective, imaginative, poetical and sensational. Descriptions. parratives, stories, dialogues, or a harmonious combination of some of these will be quite suitable. Ant subjects for this treatment are mostly to be borrowed from nature and natural phenomena, short modern biographics, fairy tales, etc. Historical narratives and narratives of adventure form good material for the higher kind of readers. Each text should form a connected whole and should be of moderate length. Each word should, as far as possible, have such a context as to leave no room for hesitation as to its meaning. For this the matter must be familiar, treating of situations or incidenta with which the student is, or can by pictures, etc. be familiarly associated. The language should be as simple as is suitable for the standard and this sgain demands the use of the spoken language. Short sentences void of metaphors and other figures of speech make a good beginning. Simple postry of balled kind, represented by such epic songs as the battle of Bobbili-as stirring as the ballad of Chevy Chase is to the English child and adult-or the rhyme of Bapparow and similar poetical compositions, form an excellent introduction into the field of poetry. In these there is poetical rhythm obtained by a few limitations imposed upon the ordinary prosewriting. Texts may also be so framed that a gradual development of the grammatical categories are embodied in them and form a good means of imparting some of the essential grammatical principles by the inductive method. The learner as

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greater freedom till at last be as able to read with profit the scinal literature itself unmodified and uncortailed Beginning with modern prose in its simplest form and that which approximates most closely to the spoken language he can proceed to the higher literature consisting of archaic proce and poetry The practice of former days and to some extent even now is quite the opposite of this In our days Nitimanjari and Nalacharitram (an extract from Bharaiam) were the two books studied. one in the higher and the other in the lower classes We were required to master the vocabulary and grammer of these books and that formed the sole linguistic ground work That is to say, the learner was abruptly introduced to the literature of the language. It was partly because the learned teacher found these quite low and trivial and partly because there were po anitable try books

he advances, will be able to choose his texts with

11 (a) Style general -The question of style is one closely connected with the making of suitable text books Postry and prospare the two main heads under which all literature can be brought and a distinction should be made in the styles to be used in each of these Each has a distinct function to serve Poetry records the higher feelings, passions and imaginative and ideal thoughts and it requires a correspondingly dignified style As Prof Masson save one should go to the point to express such ideas On the other hand proce is to serve the ordinary work a day purpose of scientific exposition, philosophical argumentation, plain parrative and simple description. The former is associated with song ornament and elaborateness. The latter is associated with conversation simplicity and plainness. DeQuincey bossts of having written what he calls impassioned prose or prose in which poetic sentiments or sublime passions are expressed. That is he has done in pross what ought to be done in poetry Prof Masson while disapproving this attempt draws a distinct demarcation between the styles to be employed in the two forms of literature. Milton failed in his pross because he adopted the poetic style of classical hombest and Wordsworth is said to have failed in some of his poems as he bordered in them too much on the process a yle These examples are enough to show that two

prose are necessary th) Postry -Telmon Literature has but one style. It has neetry with more than the necessary trappings and it has no prose to be so called Even in the poetic style there is a hopeless fixity We shall first consider the noint of prosedy the outward garb of poetry Telagu by itself possessed certain metres such as సినము, కండాము, సీతము, ఆటవేంది In their structure these are free from many restric tions and are easy to be written. But along with everything else Sanskrit metres too were borrowed. These, complex by themselves, are made still more complex and fettered by new limitations imposed upon them In Sanskrit there was only cold used to denote appropriate stoppages in the course of a line. The Telogu postry retained this but in a quite different sense, in the sense of letter barmony In addition to this they introduced prasa or letter harmony in the vertical letters. Thus metres are bound to both ways. This relationship between sounds is so minutely insisted upon that Potsons is declared a faulty writer for associating one kind of 8 with the other kind Subsequent poets blindly followed these limitations and with difficulty could make themselves versifiers neglecting the real vocation of poets. In this respect again we have a lesson to learn from English literature; how it freely borrowed metres from France and Italy in addition to its own, how it experimented with all those forms, adopted or rejected them as they were suitable or not for a particular form of writing or el particular age. Bhymed metre, blank verse, stangs forme, and doggerel, each had its day according to she needs of literature Blank verse as free from the limitstion of rhyme and most approximating to the prose form, is generally approved as best suited for long parratives. Such a blank-verse freedom is absolutely required in Telugu. Rhythmical arrangement of sounds to the exclusion of any other limitations may be practiced in writing poetry Examples of such

poetry are to be seen in the poem of Bappeds re-(c) Prose - Prose again has the danger of following the wake of poetry in its style. In the hands of some it is liable to be ornate and archaic tending

cently written by Mr C L Narasimbain.

to become fixed and resisting change. This tendency is to be carefully guarded against. The sim of the Royal Society as put forth by Bishop Sprat was " to exact from all their members a close naked natural way of speaking ; positive expressions, clear senses, a native easiness, bringing all things as near the mathematical plainness as they can and preferring the language of artisans, countrymen and merchants before that of wits and scholars " It is to be clearly understood that its work is mainly conversational or something nearing it with the spoken language as the medium of expression. But spoken language implies change and the style of writing in the spoken language should correspondingly undergo a change. Literary style changes from age to age. Each generation has its own style. "This is because the literary language is kent living and figuible only by a close relation with the colloquial speech of the age. The heat prose is never entirely remote in form from the best corresponding conversational style of the period." This is to be seen in the changes which the plain and simple style of English prose underwent from age to age in the hands of Dryden. Addison. Swift, etc., till it becomes thoroughly racy and vernacular in the bands of Kipling and other modern writers. It is such a vernacularity of style that abould be attempted in our prose works. The tendence should not be to value style according to the degree of its departure from the plain colloquial

12. Dialects,-Colloquial style and the use of the stoken language create, in the opinion of some the insurmountable difficulty of dialects. We shall now try to solve that question. In language every individual differs slightly from every other. Change in the speech of a community is the result of the tend. encies of a bost of individuals. In a community where social intercourse is frequent, the same form of speech is generally used. Individual differences are so slight that they are inappreciable and do not progress beyond a certain point. There they are checked by the corrective ridicule of the associates. Therefore for all practical purposes the speech of a community can be said to be homogeneous and any change in the language must be introduced more or less by the unanimous consent of all the members. The unity of a language can be kept up only by

uniform intercourse between all its speakers. The question is whether opportunities of intercourse are freely given to all members of a community? There may be no such opportunities and isolation of any particular part of the community may be created either by the unmanageable size of the community. difference in geographical, political, or social conditions or difference in climate, soil, the general mode of tife, religion and many other things. Such isolation due to one or other of these causes results in the enlisting up of languages, into a number of disleats each differing but slightly from the nearest one Unless this difference is but small they will no longer be dislecte of the same language but languages of the same group. So long as we are: concerned with one language and its dialects we may be sure that the dialects " will shade off insensibly one into another " and sufficiently overlan to be easily understood by individuals of two differant dislects. The differences are greatest in the case of the extreme dialects which, to some extent. can be counteracted by the influence of the central dialect.

But now a days such an isolation is possible only in the case of the inhabitants of small country villages. Under the present conditions of facilities of all kinds for intercourse there is always a class of people in whom there can be no such isolation. By virtue of their occupations and position in society they belong to no one particular community. As one and the same time they are members of several communities brought into relations with people of every class, of all manner of employment and coming from widely different parts of the country. The result is that the speech of such a man does not represent our single dialect as spoken by a single class or community but is a compromise of several different dialects though one or other will preponders ate in determining his mode of atterance. The class of people referred to here are the educated upper classes in all parts of the country. Their language can, for all practical purposes, be consisdered as the standard language of a whole community in which are merged the minor dialectal differences. This degree of uniformity is due to the free loter-mixture of all people of a certain amount of wealth and position, rendered possible by the facilities of modern locomotion. This process of larelling is greatly helped by those great meeting planes of the upper classes—the public achools Circlisation brings with it the accessity of contrals aston and it becomes necessary to use one special dialect as a mease of general communication throughout the country. All this shows that ever if there are marked dialectal differences in the language of a country patthers is every possibility of the property of the previous of the particular class of the community as the standard dialect of thap particular language and using it for literary purposes without ranning the risk of winted munited is bility

The practicel case of England should help us in this as in everything. It is a remarkable thing how comparatively homogeneous the standard English dislect actually is Standard English or polite English is not a regional dislect. It springs from the same source as the literary dialect, i s. the London dislect of the 15th century and keeps itself up by a deliberate selective and eliminating process in the absorption of the other dialects. Yet England Scotland and Ireland possess altogether ionumerable dialects. Skeat in his book on English dialects gives a list of the groups of English dialects and they are 42 in number It may be noted that they are groups and not individual dialects. Even then he says he ' simplified matters by omitting to mention some of them, so as to give merely a Peneral idea of the chief dislectal localities " If England a country of so much speech variation is capable of maintaining a common standard in written as well as in spoken language there seems to be no d ficulty to do the same either in Telagu, Tamil or any other vernacular community where after all, dialectal differences are but very Another thing which should be noted in this connection is the question of the need of a uniform international language, a movement started of late years. It may or may not be possible but it is argued that "the facilities of international communication are rapidly developing the geographical isolation of even the mutually remotest countries of the world will in time vanish, etc." Whatever be the merits of these arguments and the tase as a whole, it teaches us one very important lesson that we can with perfect success attempt to have a standard in the spoken and as a consequence

in the written language at least for limited areas as are represented by separate vernaculars.

Another thing to be noticed in this connection is that there is no necessity of maintaining an abso lutely pure standard Hereagain we can learn lessons from English writers They do not hentate " to borrow from their dialects, many terms that are still fresh and racy and metinet with a full significance " Tennyson a careful student of English, not only wrote several poems wholly in one qualect but introduced dislect words elsewhere. Skeat says, but as a matter of fact nearly all our chief writers have recognised the value of dielectal words." There are plenty of provincialisms in Shak-spears. Burns writes the best of his work in a dislect Dislects have an equal space in prose place parti cularly in the field of novel Skeat says, " Here is, in fact, no limit to the good use to which a reverent study of our dislects may be put by a diligent student. They abound with pearls which are worthy of a better fate than to be trampled under Therefore I wish to lead you to believe that a universally intelligible standard dislect with a healthy and appropriate usage of the provincial dialects is quite possible for writing purposes. At any rate and under any form it will be far more antelligible than the language up to now used in books

Certain practical difficulties arising from the variation in dialects can be overcome by explanatory foot notes if they are few by glossaries at the end of each book if they are many An ordinary alphabetical dictionary for practical use will be of immense belp in solving this difficulty. In the nature of things it should be mainly a dictionary of the present stage of languages Its foundation should be the modern colloquial and the proposed literary language A certain number of archaid words used to the higher literature may with advantage find a place in at A dictionary wratten on these lines will not only help this purpose but it will also be a good substitute for the standard dictionary of Telugu at present, via a combination of the Namalinganusasanam of Ameresimbs and the Andhranama Sangrahem both of which are poetical works giving at the same time the synonyms of one and the same words

13. Vocabulary .- Contact with foreigners is one of the main causes of change in language. The vocabulary of both the languages is markedly effected. A certain amount of new words are incorporated into both the languages as a result of bilingualism A bilingual speaker will often introduce foreign words when speaking his own language and vice versu. The actual necessity for such losus is felt, to designate ideas or objects familiar to one people but not to the other and for which no name exists in the language in use at that moment. The new word is adopted at the same time as the idea or the object which it denotes. New words and new ideas are learnt simultaneously and this is the natural method. These strange ideas and objects are denoted either by words directly borrowed from the foreign language or by new words coined in one's own language. English language was free in its borrowing from the earliest times. It came in contact with many nations from time to time-Scandinaviana, Normana, French. Italian and German-and free borrowing from each of their languages and from Latin and Greek, either directly or indirectly through French, is to be seen in it. The nature of the words borrowed is either scientific, ecclesisatical or court-terms. Even from India they have been borrowing a great number of words-bandy, cooly, curry, katemeron and a host of other words. A peculiar example of the freedom with which they respect nonular etymology is seen in this. The Hamilton Bridge of Madras is converted into Barber's Bridge simply because the natives of the land by a mispronunciation of the word made Hamilton mean barber. This is a clear case where sentimental objection is to come into play. Yet the force of popular linguistic development can not be effectively opposed. In spite of this extraordicary freedom of spirit in horrowing the English people once had a tendency to set up a reaction against the undue influence of classical languages.' They resorted to the second method of coining words out of their own language. Un gothrough-someness is made to replace the word impenetrability. But this spirit soon and naturally died away. It may sound to you something like the translation of d'third into garden to come, and tropic zon into its mother's fruit. Such coins

inca will be even as ridiculous as these renderings; Of late the spirit of Telpgu literary writers has been similar to this. Telugu language, in the very beginning has drawn too much from Sanskrit in the way of words and sammans. Peddana and his contemporaries did not hesitate to borrow even from Rindnetani. Somehow, all on a sudden, linguistic transactions with the foreigners ceased. When the literary language has been brought to a final settlement this debit side also is closed. English words have been particularly tabooed from literary language though on the spoken side they have been freely and permaneutly absorbed. Even children and women are in a position to use words like road, motor car, engine, court, collector, and many others in their most appropriate cense and they even find it very difficult to replace them by Telugu words. But in literary Telugu, as is pointed out by Mr. G V. Ramamurti in his memorandum on modern Telugu, even such late writers as Mr. Vecresslingam have recourse to un-intelligible comings such as మండలర్ష్ కళాభా[మధాన కార్వస్థానా S.K. &th (Police Head-Quarters Inspector). I am not able to understand at even side by side with the English expression. Writers of scientific books in the Vignanachandrika Series indulge in coining terms for scientific terminology. This is going too much avaigst the natural current. It deprises Telugu of its only chance of becoming rich and developing along with the other languages. There should be a definite attempt to avoid this tendency in text books to be written hereafter and words of any language in popular usage should find a place in them.

na them.:

Another evil to be noticed in this connection is the use of enormous Sanskiri Vocabulary and somasans in most of our literary books. The reason for this seems to be that for the Telungar writer flings by itself was never the object of raingy. Primatily Sanskiti was taken up. Any cue, who did not sacceed well in that, incidentally took up Teluga. A thorough Sanskiti grounding with some acquaintance with the principles of Teluga grammar was considered quies sofficient to write in Teluga trasmar was considered quies sofficient to write in Teluga trasmar was considered quies sofficient to write in Teluga trasmar was considered quies sofficient to write in Teluga trasmar was considered units Sanskiti words and samssam. A certain amount of this which has been naturalized in the amount of this which has been naturalized in the

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language should as a matter of course, be allowed but an undoe superfluity in this direction should be arouted. The vocabulary of books abould also keep pace with the vocabulary of the spoken language.

14 Grammar Mr J Ramayya Pantulu in the conclusion to his Defence of Literary Telugu ap proves of most of the steps suggested in this paper for modernising literary Telugu , but with regard to the use of words and forms be seems to be mainting on their being grammatical. He puts that word in Italics I also learn that some of those who are professedly working for the change of style in vernaculars are messing upon the creation of a grammar of spoken language before books in that language are attempted to be written. They seem to be still bound by tradition in giving this undue importance to grammar They are once more putting the cart before the horse. I think that textbooks embodying the spoken language according to the standard spreed upon should be first written and the work of framing a grammar out of it should be left to a subsequent man The business of the grammarian is something like that of a text-book annotator If the one tries to present the ideas clearly the other tries to present the forms used in a systematic way. To overlook this point is to mistake the function of grammar We have seen that language is no artificial product. It is the living and natural expression of s people ever changing and shifting Its sole standard of correctness is custom and the common usage of the community, what is accepted by the body of those who speak that language. The standard is not what is laid down by the grammareso The grammarian "extracts certain rigid rnles from the works of a selected number of writers and treats every thing which does not conform to these rules as an exception or a mistake," The work of grammar is merely of an inductive nature. As language progresses words, forms and constructions are classified under separate beads and rules of a general nature governing these various classes are deduced therefrom As such grammar is to follow and not precede a language Such grammars are called descriptive grammars and they serve no purpose to the language in current usage as they are products subsequent to the formation of a language

Here the question may arise if this kind of grammar has no purpose at all to serve 14 bas a nurpose. It is the record of the linguistic phenom ens of a past age systematically arranged. There is a higher kind of grammar, se, the comparative grammar the compulation of which necessarily requires such avatematic records of a number of languages This is important as forming part of the science of language and descriptive grammar forms the crude material for it. Even this kind of grammar does not in any way control language in its formation and development but it simply makes one understand how at was done. It is purely of a scientific interest attempting to teach the scientific conception of law with regard to language which like nature is ever changing but in accordance with fixed myiolable laws. This is the real function of grammar in its higher sense and the lower form of grammer simply forms a means to this end

To overlook this single point in the proposed reform is to get once more into the error of the old Telugu writers. They undertook to authorship ouly after mestering first Sanskrat and then Telugu grammar If such a grammatical grounding is considered necessary even now the times will be very soon repeated. The main attempt of this reform should be to counteract the injury done to language by the long-excercised tyrannical sovereighty of the fixed rules of grammer To bring the reaction against the too rigid sovereignty of the old grammar to its climax, grammar of any sort should be suspended for a time. One need not be afraid of anarcly and chaos and even if that contingency should arms we will have the advantage of creating a new republic of language and, if necessary, a grammar out of it on quite modern and scientific lines. This last place given to grammar in the treatment of this subject is partly intended to argusty its real place in the consideration of languages

15. Obsclusson —This brings me to the close of my paper. The question as a whole has two aspects—the national and the educational. The national aspect of it does not directly concern us here and indirectly through the educational aspect we have

much to do with it as teachers. In the latter part of this paper I briefly indicated the connection of the teacher with this question, the sim that he should fulfil in this said the practical mesus of achieving it. One may be surprised to see that I have not amply illustrated my statements from the vernaculars. I avoided doing it for various reasons. In the first place I was afraid of making the paper more lengthy. Secondly because, if at all I do it, I should have recourse to Telugu language while most of the members of this Association represent languages other than Telugu and I sincerely beg their pardon for referring to Telugu here and there. In considering many of these points I thought it would be advicable to bring in the analogy of English language as it would readily appeal to the understanding of the whole lot. More than all is was my chief sim to make it a general treatment applicable to all vernaculars basing it on principles of the science of languages. As such most of you may be tempted to call it merely theoretical but to make it practical lies in your hands and is left to you. If it only leads you to pay more respect to some of the statements made here I should not for a moment hesitate to ever that I horrowed them from great linguistic authorities and sometimes in their own language my attempt being to present the subject in a convincing way as so much of scepticism in connection with this seems to prevail that some are of opinion that it is not a question worth considering. I wish to end this paper with the belief that it is a question worth considering, worth discussing, worth putting into practice.

THE ENSUING UNIVERSITY ELECTIONS.

BE WE EPIEERED EDUCATIONISM.

IN inviting the attention of the public to an important editorial on "University Elections" in the November issue of this Journal, we venture to offer the following remarks to supplement the same; The registered graduates of the University of Madras are summoned once more to elect two representatives to the University and we should like to draw their attention to the seriousness of the responsibility which devolves upon them. Judging from the previous record of the decisions of the electorate, we have no hesitation in declaring, that at least on some occasions, the franchise was not exercised in the best interests of education. The voters have often yielded to the importunity of persistent and organised canvassers, without bestowing any thought on the question of their special claims for professing to talk on educational matters. It behaves them to examine the claims of the namerous candidates that have now come forward to aspire for the two vacant seats, in a spirit of impartiality and enlightenment. There should then be no complaint of the franchise being abused by the electors.

We are auxious to place before our readers the claims of two educationists of distinction who have entered the field. Principal Rajas Iyer is an educationist of considerable experience presiding over an institution which has played no unimportant part in the educational progress of Southern India. We have always known him to be a gentleman of great independence of character, and he has also to his credit powers of speaking of a fairly high order. He is thus eminently

qualified to enter the Senate of the Madras University and we have no dorbt ho will distinguish himself in that body of much by his fearless criticism as by his expert colorational knowledge and experience. It is nothing short of a grave requires that a large collegate institution of the type of the Hinda College, Madira, should not expoy the privilege of representation in the Sanate Tile electors will only be doing their duly in sending its veteran Principal to the Scaute, and they can do it with perfect confidence in the capacity of the candidate to diss harge the dates of the place.

The claims of Prof Vencataroya Sastri of the Maharajah's College, Vizianagram, are equally estimable A Chief Examiner to the University for several years, a member of the Board of Studies in Philosophy, a gentleman of high character and one of the oldest Indian educationists of our Presidency, he is, again. eminently worthy of being elected to the Senate The modesty and reserve of the Professor render it highly obligatory on the part of the voters to pay special consideration to his superior claims He does not belong to the class of self advertising politicians who are auxious to be in every public body, however remote from the sphere of their daily life and sympathies. And let it not be said of such a cultured body as the registered graduates of the University, that they can recognise the claims of only those who cry loudest in their ears and approach them through all the possible channels of personal mfluence

It is a matter for regret there are only two seats open for election, for we need hardly say, there is another very deserving can didate in the Hon Mr Y S Shiniyasa Sastri.

It will not be possible for us to maintain that his last term of office in the Senate was distinguished by any signal services in the cause of University education in Southern We are not even prepared to bestow any commendation on his recent frustrated attempts to continue to burden the one year L T course with such a subject as the History of Education But his dec ded ability and past educational experience entitle bim to exp ct at least one more term of office from the registered graduates, though the path of nomination seems to be quite easy in his case. It was actually declared in high quarters that he was nominated to the Legislative Council itself as an educational expert

We have only to add that nothing short of some real service, during the first term of office, should qualify a person for a second election, and judged by the test, we are afraid Prof P Lakshminarasu cannot urge his claims for re election with any strength or confidence Looking over the proceedings of the meetings of the Senate during the period under review, we notice, the Professor's work is more or less negligible. The path of elec tion must be reserved only for the stalwart champions of Indian interests, whose activity is apparent at every step, and we leave it to the voters to decide the fitness of the candi date by a study of his record of work in the Senate during the first term of office There should hardly be any necessity for offering guidance of this nature to such an enlightened electorate as the registered graduates of the University, but for the painful realisation that at least in a few instances its sympathies have been extended to the londest voice and the most subtle and unwearied canvassing

MATHEMATICAL RESEARCH.

THE NEW HARDINGE PROFESSOR

DR. YOUNG'S INAUGURAL LICTURE.

The following is the inaugural lecture of Dr. W. H. Young, the Hardinge Professor of Mathematics, before the University of Culenta. His Excellent Lord Carmichael was in the chair.

Your Excellency, Mr. Vice-Chancellor, Members of the Syndicate, Members of the Senate, Colleagues, Students:

It is with great pleasure that I address you to-day in my new capacity of Hardingo Professor in the University of Calcuta for I feel that it is at you wish that I am here, and that the purposes for which I am-come are such as must commend themselves to all who have at heart the intellectual future of the Indian peoples.

It is no accident that the chair of which I have the distinction to be the first incumbest is made after H. E. the Viceroy, and you may be sure that in affunding may gour synapsthy and help outing my term of office you have the highest sanction for doing to. And your presence to-day among you. Your Excellency, is at once one more token of the kindly interest you are known to take in all the connerns the welfare of the people of Bengal, and an official recognition of the importances of local Government attaches to the progressive development of this University.

In recent year, moreover, more especially since the creation of the new department over which Sir Harcourt Butler presides, the Government of India has been at pains to show the interest it takes in the higher forms of intellectual activity by coning to the financial sesistance of the Indian Universities in the matter of research.

I use the words "by coming to the financial sanisanco" advisedly for ve are all of a bere aware that, at Calcutta at heat, the morement in favour of reverth chairs has been pressed from within the University. And to refer to a personal among you to the property of the p

If sufficient funds can be obtained for the equipment of the University and for the new buildings which will be required we may then hope that in the not distant future the University of Calcutta will take rank among the great Universities of the world as a place where learning is pursued for her was aske and not merely for the rewards she may

beatow. The gulf which has been felt to exist between the ideals and supraistions of the best ladian thinkers and Pundits, and the Indian Universities as they have been up to the present will then in all essentials have been bridged. As regards my own science treated as it must be there need be no controversy. All, whatever their official position, whatever their political leasings, whether they be Orientals or Europeane, Hindes whether they be Orientals or Europeane, Hindes or Mahomedans, may without arriers peaks usin in fauthering the development of mathematical learning here in Calcults.

THE OPTIMISTIC SPIRIT.

Among the letter I have recently received which have referred to my acceptance of the task which has been entrusted to me in this University, two bars struck me specially. The one suggest that wonderful consequences may follow from the creation of a school of mathematical research in India, and expresses the view that I may find in the indian much an instrusent on which I may, really play with effect. The other writes, "What an interesting experience out will have Interest and interesting experience out will have Interested in the Sulface of the Control o

The first utterance is that of an English physicachemist, the latter that of an American makes chemistican. In neither of them is there any touch of that pessionism which can be traced among the mathematicians of Europe. The one is at work in a new country—the American Par West—the other on a new Science, concerned with matters jedged but recently to be beyond buman ken. Both them have had great difficulties to encounter, both realing. I have no doubt, the great difficulties belt realing. I have no doubt, the great difficulties to the second of the control of the second of the three difficulties an incentive to exertion and an onesse of succession.

And indeed, are not difficulties for the most part to be regarded as forces, bidden or manifest, which, like all the forces of nature, are, eren before man has learned in what percisely they consist, at the service of him who canningly observes their working?

Let me semments same of them. I can here as an Englishman, an European, a denized of the West, one who has lived for half a century with the contany personal acquisitance with your section Eastern critisation. However carried I may be and small similar to the contant of the contant of the contant seminary contant of the contant seminary contant

for you to accept guidance from me. Precessly because the midue in which I have laved be seen to different from yours, am I lakely to have something new to tall you? To makel the completchange of sourcoment cannot be but stimulating, and you will have the benefit of my first inputs same. Like elements in chemistry, human ideas are most fruitful when they are uniscent.

I come from the temperate northern zone, and I am precluded from the exercise during the whole of the academic year of a continuous control in the school of mathematical thought and research over whose labours I am called upon to preside. I see in this fact an advantage for me, but I see also in it an advantage for you, A plant too closely watched, too carefully nurtured, will never be a hardy one, and it is not for the purpose of presenting you with the cut flowers of mathematical research, gathered under a cold northern sun, that I am here. My task is not even that of trarsplanting to this sub tropical clime a slip from one of our own northern flowering plants. The Tree of Knowledge of the Workings of the Human Mind is indigenous to India. The study of mathematics is a plant belonging to the same family and its seeds have come to us from you Philosophy has been your study of predilection from distant ages. Marvellous as are the processes of Nature that are going on around you it has never been their study which has most attracted you

India is the home of pure thought. In the power of abstraction, you probably naturally secol in It is not well that two should be always here to help you to do your mathematical thinking. More than one English University is sufficient from excess of guidance, if not always go dance of the right kind.

MATHEMATICS AND THE INDIAN SUN

But it is difficult, I am told, for an Indian bimself to work in his environment. I shall indeed be successful, one of my French mathematical friends writes to me, if I succeed in grossing an active interest in mathematical research among persons exposed to the birze of an Indian son

If there be truth in the objection—the ralidity has been denied to us—I might say that some find that enforced interraption, such as the summer mouth even in Clicitian single well be responsible for no originative work from an incentive to fresh eight, and the summer with the summer work fresh eight and give to it fresh eight. Mathematical studies are some times best pureased by its and sixty.

But I would urge that in essence also this climate

may well be to the Indian of the nature of an asset rather than a drawback

Your Indian son keeps indeed the races which inhabit India separate from the rest of the world. But by so doing it must end by achieving for India its intellectual independence.

The peculiarities of your climate are to you what the silver streak has been to us Political changes have come and gone, but the Englishman has remained for ages different in important particulars from the subabitant of the neighbouring continent. If isolation had at first its disadrantages, there have nearly all passed away while the advantages have remained to for you the anni hilation of distance will have still more striking effects and India may soon be nearer to Europe than London a few centuries ago was to Paris But you will remain Indian You can never be European With you thought and action can never take precisely the same form as with us. If you are true to yourselves as d to the highest ideals of your greatest thinkers, India will add its own peculiar elements to our best civilisation, and in learning and in particular in mathematical science we may expect from you contributions to our knowledge characteristic of your race and clime This is not the time or the place to discuss the question as to how far the University of Calcutta is ripe and its students fitted for mathematical research One difficulty has however been indicoted to me It lies in your examination system which you have borrowed largely from us I am assared that the mode of selection it involves is one which does not give sufficient prominence to the qualities of independence of judgment, orginality of conception, and fertility of imagination which are so important for success in creative mathematical, as well as in the finest literary, work

If this be true one of the results of your system has still been that it has prodoced men wise compand enlightered enough to desire to see here a school of reasons had enlightered enough to desire to see here a school of reasons had at will be their stam, as it must be mine, to seek, if need be, so to modify our system as to encourage these more both that the stampent of the see that the seek of the

I will not, however, dwell longer on enggested difficulties nor will I confide to you obsers which I may here already felt—more especially as I wish to say something to you to day about mathematics itself and the possibilities which mathematic act research offers.

In the first place I would ask you as I would all would be mathematical students not to attach too much importance to statements that mathematical research is extremely difficult.

It is no doubt true that in a certain sense we may with justice are that the climate of India se extremely hot. But just as in India there are many climates, and desirable products are to be found in very different climes, so mathematical research is not one but manifold, and afford employment to very different kinds of ability.

WHAT IS MATHEMATICS?

It would be well perhaps if I develop this idea a little in detail

But first what is mathematics? It is, as I have already stated, a senone of pure thought, one not in itself directly concerned with the phenomena of the nurrers around is. The integers, it has been said, were given to us from abore, but man his made the test. I am ont, you will see, here speaking of the applications of mathematics, for example those to natural scenes and to statistic. Nor of all foreget that, if you will allow me another stimle, some of the most beautiful parts of the mathematical edition here been planned by architects who have drawn there insparation (rom Natura beautiful parts.)

On this structure, planned and executed by man, man is still at work, adding to it, beautifying it, remodelling it. Its dimensions are so vast that even the most enterprising of its devotees are acquainted with only portions of it, and it is here and there very incomplete. The interest is concerned in fact, and has been at almost every epoch, on the progress of the building, and on the modifications which the plan is constantly undergoing, even more than on the harmony of its several parts. We are constantly engaged in training new workers and new problems of construction are constantly presenting themselves for our consideration. Occasionally part of the structure already reared is found to rest on insecure foundation and has to be underpunsed. No one pays much attention to more brick-making and the discovery of a new kind of material attracts little attention unless discovered serviceable for the completion of an old or for the laying of the foundations of a new portion of the building.

foundations of a new portion of the building.

I have dwelt on this analogy because I think it brings out at once the variety of mathematical research and the necessity for its being directed to

wards an end.

It enables us also to see how essentially defective a school of mathematical research must be when it is traumelled by a hard-and fast examination system. We cannot afford to concentrate our at-

tention on one kind of training only. A mere knowledge of the existing edifice, or, what alone is possible of a portion of it, will not make a worker, nor will a mere knowledge of technique suffice

To have read a few text books, to be able to carry out certain mathematical processes, does not make a mathematician Nay, even the possession of the power of obtaining a new result does not characterise him li we reflect on the almost interminable series of properties which some of the simplest configurations possess, it becomes clear that Ly sufficiently complicating the configuration we can be sure of having one which possesses properties not hitherto stated and not too difficult to be discovered by known methods. In the case of formulæ, the more complicated they are the greater the number of equivalent forms into which they may be transformed. Ability to perform work of this kind involves some acquaintance with mathematical results and processes-an amount indeed which roughly corresponds to that which is required in a written examination.

Investigation such as these would however find with difficulty a place in any mathematical periodical in the world.

What work are we to expect from our workers and how are we to train them? Let me leave my analogy and attempt to make a list of the hind of workers a great school of mathematics requires:—

(1) Mathematical biographers. Those who devote themselves to the researches of a particular mathematican of the present or of a past generation, who examine in detail the principles such a mathematican is in the habit of employing, the influences be has undergone and the new ideas and processes he has introduced.

- (2) The mathematical historian, who traces the development of particular mathematical concepts.
- (3) The mathematical logician, who subjects the mathematical structure to critical examination, who scutinises proofs and exposes their fallacies, and substitutes satisfactory ones for them.
 - (4) The mathematical philosopher, who concerns inmedit with the theory of the mathematical tools, and still more than this, with the general principles of each particular branch of the subject one for whom more results, however elegant they may be, have no interest, unless they throw light on the theory.
 - (5) The mathematical statisticism, who, for example, considers in detail the more important

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mathematical theorems with special reference to the character and classification of the various proofs that may be given of them

- (6) The mathematical chronologist, who interests i maelf in the periods of time at which new deas have appeared and new theories have arisen, and writes the history of mathematics from this notion of the properties.
- (7) The mathematical pedagogue, who seeks to obtain new and, if possible, simpler proofs of old results
- (8) The mainematical literary man, who aims at popularising the more beautiful or the more neeful or the more easily understood portions of the subject of which he treats
 - (9) The mathematical annotators and com
 - mentators of the classical writers

 (10) The mathematical archeologist, who seeks for the origins of mathematics in historic
- or even in pre-historic times

 (11) The mathematical constructor, who interests bimself in examples which throw light on known theorems or zerve to show within what

limits theorems are possible

- (12) The mathematical translator, who translates from, and into mathematical language, the work of the astronomer, of the physicist or of other scientists
- (13) The mathematical encyclopedist, whose object is to expose the state of a subject at a particular epoch with special reference to the person to whose work the chief results of the subject are
- (14) The mathematical journalist who makes it his business to be acquisinted with and to record from day to day the new steps taken in his science
- (15) The mathematical writer or author, properly so called, whose work is creative in the narrower sense of the term
- I do not, of course, my that all three waveers are necessary or but hery all earts me are should of mathematics with which I sam acquained corer, the lines of durino between ones kind of work and another is not always clearly defined. To becomes great unthematican it will be mocessary and the several of t

old results and examples illustrative of old theorems has not infrequently lid to striking additions to our knowledge. Generally we may say that to be a successful work of any one of there types it will be an advantage to be acquained with the results and to employ the methods of other classes of workers.

But even a person who is concerned with but one of these kinds of work is helping on the cause of learning and is entitled, to a greater or less degree, to the name of mathematician.

"GRADIS AD PARNASSEM"

What steps should a student take who washet to become a mathematican in this sense? That he must rest that bely and advise older workers may be the to Endothium a sendent. He must sender that he had not been to be a supported by the sense of the sense

How far will tent book he of service to hus? Only in so fars they are the voic of ments who there is subject to a living subject, one at which they have themselves worked, one which they have themselves assumited Otherwise the testification is subject to a some of confusion rather than a cause of enlightenment. So far from being a guide to the student, it will serve as most as a book of reference to the expert. And even the best test books are soon out of the stretch testification as soon out of the stretch testification.

Le progres des sciences rend inutiles les ourrages quientele plus aid a ce progres

But in the case of mathematical text-books it is still far from possible for us to add !--

Commeces outrages no serient plus a grand chore, la jounesse croit de bonne for qu'ils n'ent jamais seru a rien; ells les meprisest, pour pen qu'il s' from a quelque ides trop surannes, ells en rit.

Indeed to speak of what I know, mathematical text books which have once taken root obtain an immense authority with the young students, as well as with discounties the students, as well as with the students, the students, as decision after edition that are spentable alteration, and theirty parts after their first appearance are reproduced in relief type for the benefit of the blind.

Reports on the state of science at a particular epoch are always useful, more especially when they bear the date of their composition, and are work of competent methematicians. Litely, however, work of this kind has too often been entrusted to euperficial and partial writers, and the feeling has been growing that it is now only safe to regard such reports as representing the author's knowledge and opinions.

But how may the student hope with the least outside help to obtain a grasp of the branch of mathematics on which he is interested? There is one method which, though it may be long, is sure to succeed; let him study the history of his subject, not however in the works of would-be historians, but in the works of the writers themselves. Let him try himself to be the true historian of his subject, and seek to make clear to himself not how great, but how inevitable, each step in the development was and acquire in this way the conviction that he is worthy to follow in the footsteps of his predecessors, that he too is a mathematician, he too has been touched with the divine flame. How does what I have been saving bear on the question of careers? How may you train yourselves to be great teachers? For many of you here already exercise, or hope to exercise that profession. Only if the subject be a living one to you can you hope to make it a living one to your hearers. You must yourself be a worker.

How will it benefit the employee in an office, the Government official, to have been a mathematical worker? He will have acquired the habit of thinking clearly and incisively, of going straight to the heart of things, and of brushing aside all that is accessory. He will have gained the conviction that life consists in progress, that every problem has its solution, that every difficulty has its use. He will have acquired a reasoned confidence in his own powers, and some knowledge of their limitations. Familiarity with the mode in which mathematical theories have developed carries its own lessons. We learn to look below the surface, to keep an open mind, to realise the importance of the exceptional and even to welcome it, to see in one difficulty the means of conquering another, to appreciate the power of suitable conventions.

Galois was only a young stadent—be died in a dual at 22—when he saw in the work of Lagrange the Anademental country, of group, whose instruction has revolutionist whose domains of mathematical thought. The apparently trivial attempt of Canchy to obtain an easingue in a differential co-efficient at a point where the function is individe, led him to, was indeed almost itself equivalent to the discovery of the great theory of Fançations of a Complex Variable.

In the coefficit between authority and innovation the former as rarely had the last word. The Theory of Functions of a Real Variable, which was all but ignored and of set purposes, by the more induced in mathematicians of the day, as subject which may be said to have taken its more than a centery ago in what were regarded as heratical views on the nature of a function by one who was as little of a precision as Euler, is now carrying all before it.

The use of the srceptional is one of the leading ideas in the work of Weierstrass and his pupil Mittag. Litler; but only in the Theory of Functions of a Real Variable and its applications has its fell importance begun to be realised.

Ereo in my own under-graduate days such an apparisused teacher as Edward John Routh used to argue: "This being time always must be true in the limit." Precisely in the fact that this is not true, and in the difficulty that fact has created, we have found a means of studying the representation of facetions of the most general character and of classifying them.

The necessity for conrention and the power possessed by it as an instrument of law and order as well as of progress, are strikingly illustrated by the very suistence of nathematical analysis. Without convention the idea of number does not rise beyond the primary one of integer and does not even include that of commensariable or rational number, to which Sir Oliver Lidge, in his recent interesting address to the British Association as Birmingham would restrict it, thereby destroying at a word the greater part of mathematical solence.

By suitable conventions we have conquered the impossible and disarmed the infinite.

For all of us, whether mathematical workers or not, our mathematical studies correspond and elevation of the mind. Mathematical concepts to the theorem are to the mental world what the masterpieces of music and of set are to the material one. They represent the extreme degree of perfection of accurate thought of which the human mind has as yet above ittelf capable.

As we listen to these pure harmonies and contemplate these ever-changing and beauteous visious we shall be abandoning ourselves to no merely seconds pleasures.

We shall be taking to conselves impression of conceptions which seen to their radimentary forms, have at the turnley points of the history of the human mind, been a source of inspiration to the greatest physicists, the broadest humanists, to the most profound philosophers

We shall be sharing in the very life of a science which is bee ming so indispensable to the modern world that the chief danger to its happy continuance lies in the interest it excites in those who would exhibit its connects

And our rapt devotion will be hestening the time when pernaps even the crowd of thinkers will acclaim our science to be of all the more fitted to receive and to retain the crown of human learning

UNIVERSITY OF ALLAHABAD

CONTOCATION ADILESS

OF THE

HONBLE DR SUNDAR LAI, VICE-CHANCELLOR

Fellows of the University, Ludies and Gentlemen

It has been a well established custom of the University to conclude the function which has brought us together to-day by an address which is expected to present a short resume of the work done during the year, and to deal with some of the more important educational topics which interest us But closely associated as the Vice-Chancellor of an Indian University 18, and must be under its present constitution, with his colleagues in the work of the University in all its departments, it is by no means easy for him to put his finger on any important point in our educational policy in which his views are not known to them or their views to him. Very little, therefore, of what I may venture to say to day can possibly be new or unfamiliar, or not alleady considered by you at some time or other in the course of the performance of our ordinary duties as members of the University I propose, therefore, to refer only to some of the main aspects of our work and to endeavour to present to you, what may possibly interest you, -the impressions of one who, though without the practical experience of a teacher or administrator, has had the privilege of having been as sociated with you so long in the work of the University and who is keenly interested in the educational advancement of his countrymen

Before, however, proceeding to do so, I think is my daily to bring to your notice the loss that the University has enstained in the course of the year by the death or retirement of some of our prominent co-morkers. By the death of Ran Ram Saran Das Bihader we have lost the valu-

able services of one who belonged to that group of Fellows who were appointed by name by the Act by which our University was established in 1587 He was the only surviving member, on the list of our Ordinary Fellows of this year, of that bar I of devoted workers who met on the day the University was opened and to whom it is so much indebted for the care and thought with which they promoted its development in the earlier years of its existence. He was a regular attendant at all the meetings of the Senate and the Faculty of Arts and his scholarship in Sanakrit was recognized by his appointment to the B and of S noise for that language. He would have very fittingly occupied a prominent place in the newly constituted Faculty of Commerce had be been spared to serve the University longer We have lost another scholar of great learning, eminent artauments and high promise in Professor B C. Norman, The Board of Studies in Sanskrit, which has been rather unfortunate in recent years to losing the services of so many devoted scholars, has lost one more of sis indefatigable workers By the resignation of that eminent scientist, Dr Imms and the death of Rev. Dr Huntley, the Board of Sindies in Biology has lost two of its most zealous and able members The promotion of Mr Jennings to a higher and wider sphere of activity, viz, to the office of Director of Public Instruction of the sister province of Bihar and Orissa, is a well deserved and fitting recognition of his valuable services The many Boards and Committees of which he has long been so prominent a member will no longer be able to benefit to the came extent by his sound judgment, scholarship and tact, owing to the call on his time which the duties of his new office must But it is a consolation to necessarily make think that our loss will be the gain of a sister province, and that his experience will be at the disposal of a younger University which is expected to soon come into existence Fellows have had to resign owing to their departure from these provinces. Two of the most prominent and devoted members of the University whose names you will find on almost every Board or Committee in the University Calendar and its minutes. I need hardly say that I refer to Means Ward and Cameron, have just coased to be members by efflux of time. I am glad to announce that His Honour the Chancellor has been pleased to renominate them and that we shall continue to have the benefit of their scholarship, experience and devotion to the best interests of higher education

But while we regret that the University bark

will be deprived of the services of so many experienced hands, we have, on the other hand. the prospect before us of having its crew reinvigorated by younger recruits, the majority of whom are to be selected for us by another agency. You will be glad to hear that His Honour the Chancellor (the Hon'ble Sir James Meston) decided to throw open all the four elective vacancies available under section 5 (2) (4) of the Indian Universities Act of 1904 to election by the registered graduates of the University, as his predecessor in office, Sir John Hewett, had done last year in similarly throwing open the only vacancy of that class available in that year to be filled up by election by the same body. I heartily welcome our old colleague Dr. Satish Chandra Bauerii on his coming back by election to his place among the Ordinary Fellows of the University and look forward to the pleasure of welcoming the new members as soon as the elections are over. I believe I voice the sentiments of all registered graduates of the University when I say that they are indebted to His Honour the Chancellor for assigning all the available vacancies of the year to election by them in spite of the heavy losses sustained by the University to which I have already referred.

I have alluded before to the establishment of the Faculty of Commerce which was decided upon and sanctioned by the Government in the year under review. I wish the University every success in its new field of work and the new Faculty good luck and prosperity. While on this subject, permit me to invite your attention to a very great practical difficulty with which we are confronted by reason of the maximum number of Ordinary Pellows of our University being limited to seventyfive. It is imperative that we should have, as soon as possible, a sufficient number of experts in commerce on the Senate to assign them to the new Faculty. But this, under our present constitation, will only be possible as available vacancies will occur in the course of the coming years. The effective organisation of the new Faculty will thus be delayed indefinitely. The same difficulty occurred in connection with the Faculty of Medicine, the establishment of which was decided upon by the Government in March 1906. As the buildings of the Medical College at Lucknow were not ready, the consideration of the matter was not taken in hand till 1903, when definite proposals for the amendment of the University Regulations occessary for the establishment of the Pacualty were laid before the Syndicate. The establishment of the Paculty was sauctioned in due course, and the Faculty was constituted, but

it is only in the calendar for 1913 that the Faculty appears for the first time with the full number of medical experts selected from among the Ordinary Fellows. The elow process of putting on the Senate the necessary number of experts as vacapies occur very much refards the growth of the new Faculty. When presiding over the Convocation of November 1908, the Hon'ble Sir John Hewelt was pleased to observe in the course of his address as follows :- " The view that I would arge is that the Indian Universities are assentially the Universities of the people, and that, if they are to fulfil their purpose, they must provide for courses of instruction suited to the many-sided activities of the people, the development of which cau alone be relied on to ensure continued prosperity to the country. I wish to see the University extend its influence over other forms of education with which it has now no concern. Holding this view I think it a pily that the Faculty of Engineering has been abolished, and that the University does not extend its help to the Thomason College at Roorkee. The result of this indifference was that at the sittings of the Industrial Conference at Naini Tal last year, there was a very pronounced feeling of opposition to the suggestion that it would be desirable to secure the affiliation of the Technological Institute, when established, to the University. I believe that a somewhat similar feeling has led to the determination of the Agricultural College to be a thing spart from the University." Experience has shown that the meximum limit of 75 prescribed by the Act renders it very difficult for us to extend the scope of the University by taking up new spheres of work, and I think it is high time that the limit was raised to 100, as is the case in the Universities of Calcutta, Madras and Bombay. It has been auggested that the difficulty might possibly be solved by a careful revision of the list of Fellows. It must however be remembered that apart from the delays involved in carrying out such a suggestion, this University is the second largest in the Indian Empire in area and population, that it comprises colleges as far distant as Nagpur, Indore and Jodhpur, and that it is no less important to secure on its Senate a due representation of its federal colleges and of the several States and interests with which the University must be in close touch to ensure its effective working. It will of course be not necessary to fill up all the vacancies at once. But power should be given to do so, it being left to the discretion of the Chancellor to fill them up as

occasion may require. If this is done it will also be possible to make up for the diministion, by reason of the assignment of five of them to election by graduates of the number of Fellowships to which he Government may nominate It will be possible also to even increase the number of Fellowships so assigned

I fear I have detained you too long over prging the claim of our University to be placed in a better position as to the maximum number of Ordinary Fellows it may have on the Senate will now invite your attention to another im portant point under the regulations relating to the degree of Bachelor of Arts The grouping of the subjects out of which candidates for that degree were permitted to select three sul rects. was so arranged that beades E glish, which every candidate must take, he was required to select either a classical language or Mathematics, as his second subject, and he had the unfet ered option of selecting the third subject out of several others which were enumerated in the regulations He could, of course, also take both the classical language and Mathematics together, as his second and third subjects Under the regulations as they have been now amended English is the only subject which it is compulsory for every candi date to take up, the other two may be any, out of the many enumerated, at the candidate a choice The grouping of the subjects for the examination for the degree of Bachelor of Science has also been so altered as to permit a student to take up Mathematics, Physics and Chemistry (group A), or Chemistry, Botany and Zoology (group B) It has thus become possible for a student to take the degree of Bachelor of Atts or Bachelor of Science without studying any more of Mathematics than what is prescribed for the Matriculation Examination, or to take the degree of Bachelor of Arts without knowing any classical language. Thus has been settled an oft mooted subject of animated debate in which the motion for the change now adopted was oft repelled by a small majority of votes Whether the present decision will be generally regarded as satisfactory or not, further experience only can show, but there is one aspect of the question which, I think, deserves consideration. Under the system in force before the introduction of Science courses in oor Universities, every candidate for the degree of Bachelor of Arts was required to take up one of the classical languages as a compulsory subject of study Indian students generally took up Sanskrit, Persian or Arabic The study of Sanakrit enabled them to obtain a competent knowledge of Hindi, and of the other two, of

Urdo The graduates of those days had a fauly good command over either the one or the other form of the vernscular. With the introduction of the Science or B course as it was called, the classical language was at first dropped after the Intermediate Examination A few years later, the bifurcation of studies was carried down to the lowest stage of University examinations. It has now become possible for au Indian student to take his degree without knowing much more about his vernacular than what he might have picked up on his mother's lap, and except for the third paper in English in the Matriculation and the Intermediate examinations, in which he is required as a part of that paper to translate from the vernacular into English (as a test of of his knowledge of English), he need not know the vernacular at all With the constantly in creasing number of students who go in for Science and the increase to the number of those who will not take up a classical language even for the degree of Bachelor of Arts, there is a class of our educated youths growing up, who are far bappier in the use of Epglish language than in the use of their own vernacular One is very often paned to notice in the local Gazette, the names of persons published by the Pleadership Luamination Board of the High Court, who are declared to have passed an examination in Law which is held in the English language but who have failed to satisfy the Examiner that they possess the very elementary knowledge of the vernacular which the Examination Board insists upon their possessing before declaring them to be qualified to practise in the Courte of these provinces It would be a reproach to the educational system of any country if it was possible for any considerable body of its educa ted youths to be brought up under it without a decent knowledge of their own vernacular-I recognize that in our present condition a g.od knowledge of the English language, which 13 Decessary to give us access to Western learning its sciences and discoveries, is indispensable, and that all higher education must be imparted in our colleges through the medium of huglish, at any rate, for a long time to come I am also aware that there are considerable difficulties in finding a place for the vernaculars in our streadycrowded University currients and that room can only be made for them by taking out some other part of the course But there seems to me, as at present advised, no serious difficulty in the way of arranging for a thorough grounding in the vernacular in our schools It may be that we are putting off the commencement of the stuly of the literary language too long in the carlier stakes

of our school corriculum. Some time ago a member of our Senate brought forward before ne a motion to make the vernacular a compulsory subject of examination for the Matriculation Examination. The Covernment had however in the mesawhile appointed a Committee for the consideration of the whole subject of the study of the vernaculars in all classes above the primary stage: so the motion was withdrawn pending the submission and publication of the report of that Committee. It is of course evident that little can be done in a matter like this without the co-operation of the Government, as a thorough grounding in the carrent vernaculars is more appropriately part of the school course, while a critical study of them, their growth and development from a historical and philological point of view, might more fittingly be left in the hands of the University. I do not know whether any orders have yet been passed upon the report of that Committee by the Government or whether the matter is sufficiently advanced for a further consideration by the Government and the University. But I hope that the matter will receive the attention that it deserves at an early date.

in view of the admirable note of the retrospect of the operations of the year 1912-1913 which has been printed by the Registrar, and is now before you, it is nunecessary for me to refer to any of the matters which have so fully been dealt with by him. It would be sufficient to point out that the efforts of the University and its stillisted Culleges, have, during the year, been mainly directed towards atrengthening and improving their staff and general equipment, and providing for instruction in higher and additional conters. As pointed out in that note, the Agra College and the Mahomedan Anglo-Oriental College at Aligarh have been affiliated up to the M.Sc. degree for two years in Zoology and Physics respectively, and the Victoria College of Science at Nagpar up to the D.So. degree in Physics and Chemistry.

This, of course, only represents a small part of the improvements and additions made by our colleges. Oning to the great demand for adnisions which has spring any ensywhere almost every one of the colleges thad to open additional struction of a classes or in arrange for the instruction of a classes or in arrange for the indirection of a classes of the arrange for the indirection of a classes of the arrange for the indirection of the classes of the arrange for the additional buildings and bottle, and offer a growth of the University may be formed at once by a glance of a few figures. In 1859, in the dres calcular published by the University, the large calcular additional up to the M.A. inninger of Colleges additional up to the M.A.

standard is shown as five, and those affiliated up to the B A. standard only, as foor. In 1904, just before the reorganization of the University under the Indian Universities Act of 1904, the number of colleges affiliated up to the M.A. standard is shown as eight and of those affiliated up to the B.A. or B.Sc. standard only is shown as ten. In 1913 the number of colleges affiliated up to the M.A., M.Sc., or the D.Sc. degree (and in the case of many of them in two, in the case of three of them in all the three degrees) is fourteen and those up to the BA., B.Sc., (or both) and the L. T. degrees twelve in addition to King George's Medical College at Locknow and the University School of Law at Allahahad. The number of students examined in 1889 was 1839. In 1904, it was 3409 and in 1913, it is 7727. In 1904, the number of rocognized schools which sent up its candidates to the Matriculation examination was 110. It is now 209. And it has been my pleasing privilege to have signed 817 diplomas for presontation to-day.

The only part of the University calendar which has shown but little signs of expansion is that which contains the list of University endowments. The only new endowment this year is the generous gift of Lala Ganrisbanker, the principal contractor of the University Senate Hall build. ing, who has founded a gold medal to be awarded annually to the student who stands first in the Final LLB. Examination of the University to be called Sir Henry Richard Gold Medal, to mark the services of my distinguished predecessor in office to whose efforts and to the assistance and support given to us by Sir John Hewelt we are indebted for our Senate Hall and the Law College building which is nesting completion and to which the University School of Lyw, which is our first effort in the direction of beginning work as a Teaching University, will soon be transferred. It is not because the people of the provinces are apathetic towards education, or slow to arpreciate its advantages, but it is due to the fact that the channel of public charity has in recent times been for many reasons diverted to other directions that our list of endowments has remained almost stationary. In our comparatively poor provinces which bare been the subject of too severe and widespread famines within the last decade or so, we have bad a Reja Uday Pratep Singh who generously gave away asom of eleven lakha for the establishment of a school at Becares, and a Raja Balmant Singh, who gave away a similar sum for another school at Agrs. The large same sub-

erabed for the Hindu and the Muslim Univer-

attes and the handsome donations towards the construction of our own University buildings to which we are to no small degree indebted for our present spacious home demonstrate beyond doubt the keen interest that pullic education has aroused in these provinces But the abstract and moor poreal person who only collects examination fees holds examinations and grants its diplomes and certificates once a vest does not however appeal to the same extent to public sentiment as the living institutions which open their portals to all who enter them in search of knowledege and which also trach and train It is only since the time that the Calcutta University also assumed the role of a teaching and research University, that the larger gifts from the public have commenced to flow in Our best thanks are however due to the Government of India by whose generous help we shall soon be in a position to make a further advance in this direction The Government has already given its approval to the establishment of University chairs in Economics and Modern Indian History out of the grant of Rs 15,000 a year made last year, and has been further pleased to express its readiness to establish a third chair for three years the arrangements for which are now under consideration With the kelp of the non recurring grant of three lakhsannounced last year and the further grant of two lakhs already made we hope to be able to build the University library, the plans and designs for which have already been prepared by Sir Swinton Jacob, and the law hostel which is a very necessary adjunct to our University School of Law, which has already become almost self supporting Thanks to the energy of Dr Weir and the members of the staff, the very marked and high standard in the percentage of successful candidates (specially the number of those placed in the first class) has already demonstrated the advantage of the concentration of legal studies on the lines laid down by the University Law School Committee

The Regatter has sinch a warning note as to the fatter of the Gancies conducting of the University, and fears have been sometime expressed that with the excludation of the two proposed nature Universities at Aligath and Henrice our Ganciest position may be accounted. Henced, and state Universities at Aligath and Henrice our Ganciest position may be accounted. Henced, and the hard that is now bargetter that the the hen interestitate a now bargetter that the heart interestitate as now bargetter than the desire of the most of selection, there are the most of described to the proposes at alone of all those there. We have the different fat he makes it is the proposes at a second all those the control of the proposes at a second all those the control of the proposes at a second all those the control of the proposes are the second and the control of the proposes are the proposes and the control of the proposes are the proposes and the proposes are the proposes and the proposes are the proposes are the proposes and the proposes are the proposes and the proposes are the

their children to schools, and had to rely for all progress on their unsided offerts alone have now hannily changed. Everywhere the pasnle are clamoustne for more schools and colleges and are freely belying the establishment of new institutions and the improvement of existing ones-Speaking personally for myself. I do not share the apprehensions that have been expressed, and though I personally shared the opinion that it would have been a great advantage if the supporters of both these movements had united in apporting one great common institution, I recognize that a University such as ours cannot meet the special needs of either of the two great communities of India in the matter of religious education, nor can it evoke the enthosizem which each of them excites in the minds of those for whom they are primarily intended. I am convinced that on the whole the creation of these Universities will deepen the interest of the public in the cause of higher education and will divert the channel of public charity towards it, from which all Universities including our own will, I hope, benefit The great thing for us to recognize and remember is that though in our present state of education the State Universities of India most continue for a long time to be in a great measure federal Universities exercising their infloence over large areas, they must like the were established, steadily continue to assume more and more the functions of a leaching University, the ideals of which, high educational authorities combine in urging, foster in a high degree the progress of knowledge and research in all its higher branches. The advantages of a well equipped residential University where its regular students are " able to work in intimate and constant association with their fellow stadenis, not only of the same, but of different Faculties, and also in close contact with their teachers," where the students and leachers are "brought together in living intercourse in the daily work of the University," and where "from ti a time il a ander graduate entera the University he should find himself a member of a community in which he has his part to play," are generally well recognized. It is in this direction that we must progress in the years to come. For the present however we can only hope and endeavour to realise many of the advantages of a teaching University in the colleges which are affiliated to us, and so most of which the residential system has been steadily growing Indeed it is a matter of satisfaction to reflect that the cooleges affinited to our University

staff."

are becoming more and more of the residential type. It is through them that we can at present largely promote more efficient and higher teaching, and build up the character of the youths who come under the influence of our University.

The arpansion of our colleges means of course the providing of a stronger staff of able and experiment professors to help and guide the students of all classes (section and junior alke) both in study and research. The advantage of placing even the junior classes under the charge of distinguished teachers has been recognized, and I cannot in this comerction do better and quote the views of the Boyal Commissioners who have recently submitted their final report on University Education in London. They observe as follows —

"Teaching will of course predominate in the earlier work, and research will predominate in the advanced work; but it is in the best interests of the University that the most distinguished of its professors should take part in the teaching of the under-graduates from the beginning of their University career. It is only by coming into contact with the innior students that a teacher can direct their minds to his own conception of his subject and train them in his methods, and hence obtain the double advantage of selecting the best men for research, and getting the best work out of them. Again it is the personal influence of the man doing original work in his subject which inspires belief in it, awakens enthusiasm, gains disciples His personality is the selective power by which those who are fitted for his special work are voluntarily enlisted in its service, and his individual influence is reproduced and extended by the spirit which actuates his

While admitting the desirability of making better provision for higher studies and research in our Universities, friends have sometimes asked,- Will the Indian students go is for them?' I feel no besitation in answering the question in the affirmative. Other provinces, where Universities and colleges came into existence much earlier, bave brought out distinguished scholers and scientists like the late Raja Rajendra Lal Mittra or in the present times such eminent persons as Prof J. C. Bose. Dr. Bhandarkar and others. There is no reason why in the territories comprised within our jurisdiction with the kindly infinence, encouragement and example of emirent teachers we should lag behind. I firmly believe that we only want the necessary facilities and opportunities to do

our proper share of work in all departments, How far our bopean this matter are correct and wall-founded, it is for you, graduates of the University, to demonstrate and justify; it will be for you alone to prove that the ancient lead of Bharatavarsh which gave birth to so many profound scholars and thinkers in agree gone by still ratian its vigorous intellectual fertility and that her soon, fostered and morrised under the patential care of a great and an orient and the patential care of a great and as placed us, can still maintain the good mane and fame of the land of their titt.

UNIVERSITY OF MADRAS: WELCOME ADDRESS TO

H. E. THE VICEROY.

May it please Your Excellency :

We, the Vice-Chancellor and Fellows of the University of Madras, desire, in the first place, cordially to welcome Your Excellency on behalf of the Seate, Boards of Studies, graduates and under-graduates of the University, and to take opportunity of expressing our abhorroom of the distardly outrage sgainst Your Excellency last December and our thankflowers for Your Excellency as

We have next to thank Your Encoleary for hindly consenting to honour us by laying the foundation-atone of the New University Library and Buildings. We are well aware of the interest Your Excellency has always shown in the cause of University decaration in India, and we acknowledge with gratitude that it to coming to the emighteend interesting of Your Excellency's Gorernment, giving effect to the gracious washes of this Imperial Majesty the King-Emperor, that we are in a position to take this important step forward in the development of University work.

The new history building is intended to house the University Lubrary which has been acquired at the University Chrary which has been acquired to the University of Criental Manuscripts which has recolaracy of Oriental Manuscripts which has recolaracy of the University. The nucleon of the tendent of the University of the nucleon of the cape of the University. The nucleon of the part of the University of the nucleon of the part of the University of the nucleon of the part of the Diversity of the Nucleon of the Object of the University of the States of the University of the Interest of the University of the Interest of the Interest occurring the University of the Interest occurring another the University of the Interest occurring the University of the Interest occurring the University of the Interest occurring the University of the Un

formed some years later by Mr. C P Brown, the well known Telega Shobta of the Company's Service and a collection received from the Last Judia House after the dissolution of the Company The Library has been colarged by extensive pur chasses in recent years and will greatly facilitate the higher studies in Sanskrit and the Pravidien of the Company of the Company of the Company Demonds.

The other University buildings are intended to provide accommodation for the direct traching in these and other subjects which the University is undertaking with the resources placed at its disposal for that purpose by Your Licellency's Government.

On an occasion such as this we may, perhaps, be permitted to refer to the general progress which has been made by the University since the passing of the Universities Act of 1904, the revision of courses and raising of standards, the institution of Honours Courses for under graduates, the Matri culation of students whose School Leaving Certi ficates have been approved by Heads of Colleges and the increased interest in the Vernaculars which has followed on the introduction of Verna cular Co pposition into the Intermediate Exami nation Of even greater consquence are the closer relations which have been established, between the University and its Affiliated Colleges, the encour agement which has been given to the hostel system and the development of a fuller college life, and the great improvements in staff equipment and general efficiency, which, under the inspection and guidance of the University, bare been effected in the colleges-improvements which, in the case of colleges not under Government management, have severely taxed the resources of the massionary and other managing bodies, in spite of the generous manner in which Government has come to their Basistanco.

In one respect, however, we have been less fontunate Annous as we are to promote the fewel pueset of higher studies at the University fewel pueset of higher studies at the University fewel pueset of the few

secution of the work we have been invited to undertake

A DONATION.

The presentation corremony having concluded, His Eccilency the Chancellor handed a note to the Vice Chancellor, and shortly afterwards all present were grainfied to hear a nanouncoment, to the effect that he was commanded by IL B. the Chancellor to announce that the Hin bile Mr P. Ramardyavongar, Member of the Imperial Legs Inter Council, but made a donation of Re 10000 towards the encouragement of the scentific start of Direction on the Teleur Laguage.

H E THE VICEROY'S REPLY

His Excellency the Viceroy before laying the stone said -

Gentlemen —One of the most honorable perceptives of a Vicercy a the dignity of the position he holds as Chancellor of the Calcuit University, but it is a dignity which carries with it no small sense of responsibility, for 1 always feel that the Universities of thats represent the quatesence of Indias cultivated intellect, the that their reflect atmosphere which the development of a critical field before which all development of a critical field before which all may well dual.

You will understand then that I appreciate very highly the great honour you have done men acking me to take part in this ceremon, and I can assure you that, whatever. In the yet post post of the part of the par

THE IMPERIAL GRANTS

It was a source of great estatistics to my Government to be able just year to such hieral grants with the object of enabling you to make a definite step forward, and I congratiately ou used the dictation you have taken for the province of the dictation you have taken for the province of the dictation of the dictation of the distance of the distance

and I gather that you are also alive to the importance of securing, for the arrangement and conduct of such teaching, men who can claim to be specialists in their own various subjects. I have liatened with great interest to the account you have giren of the progress you have made in various directions.

ACTIVITIES OF THE UNIVERSITY.

The Act of 1904 widened the scope of activity of the Universities by imposing apon them teaching functions, in addition to the examining functions which they had possessed before, and the objects on which the University of Madras have proposed to spend the liberal grants made by the Government of India appear to be well-devised for the purpose of carrying out this intention. The care you are bestowing upon the cultivation of the vernaculars is a noteworthy feature from which much may be hoped, and I trust that the new organization of Oriental study will meet with success. The acceptance by the University of the Secondary School Leaving Certificate is calculated to foster the best interests of higher school education by permitting elasticity in the courses and involving a less rigid system of examinations.

PRIVATE LIBERALITY.

Speaking generally, what you have told me of the work you have been doing fills me with hope for the future and affords a guarantee to any gentleman who is moved by your appeal—an appeal which I heartily endorse—and of a reponse to which I am very gird to see the commencement and comes forward with benefactions to your University, such as those which have recently been so liberally bestowed in other Presidencies, but will, can be sufficiently the second to the presidencies way for the development of higher education in Madras.

In proceeding now to lay this foundation stone, let me thank you for the extremely kind welcome you have given to Lady Hardinge and myself, as well as for the honour you have done me in it viting me to undertake so pleasurable a task.

THE STONE LATING CEREMONT.

H. E. the Viceroy, H. E. the Chancellor, the Vico-Chancellor and two other gentlemen present on the data then proceeded to the partition where the stone-large ceremony was to take place, liere were waiting Mr. Montagu. "Thomas, the strikited, who is responsible for the design of the ear buildings, and Mr. J. J. O. Reitly, Executive Engineer in charge of the work."

THE INSCRIPTION.

The stone bears the following inscription:—
"This Foundation Stone was laid by His Excellency, the Right Honourable Obaries Baron
Hardinge of Penshurst, r. c, d.o. n., d. n. d. s.
d.o. M. q. d.a.t.e, d.M.y.o., i. s. c., Viceroy and
Governor-General of India on the 25th November, 1913.

The following is a full text of the Address presented to H. E. the Governor of Coylon and the Dependencies thereof in November last.

May it please Your Excellency:—The North Ceylon Educational Association desires to take this opportunity on the occasion of its annual general meeting, to bid Your Excellency and Lady Chalmers a hearty welcome to Ceyloo, and to congratulate you upon the assumption of your bids office.

2. We have heard with great pleasure and with sincers approval of the purpose of your Government to establish in Colombo a University College which will set a worthy standard for higher education and which will maintain a high edgree of efficiency. We trust that in the near degree of efficiency. The state that is the near a University for we believe that the problem of higher decaction for Copyon will never be solved till the Colony has its own well-equipped University.

3. We desire to express the hope that this University College will be conducted on Eastern lines, thoroughly adapted to the needs of the Ceptoress. We would extressly ask that those in charge of the institution be instructed to maintain this feature, and expecially that adequate facility be given for the study of the veracular—Tamil and Sinheless—and Oriental classics on equal terms with European modern languages and Western classics.

4. But we risw with misgivings the proposal of Government to give this University College a virtual monopoly of higher education in the slizad. We believe that the creation of such a monopoly will be highly detrimental to the best interests of the youth of the country; and in support of our position we submit the following for your consideration:—

(a) A monopoly, in itself, is always open to serious question. Here, in the field of higher education, we regard it as specially undesirable. We believe that in open competition, with the pressige of the Government behind it, such ag nestitution has nothing to fear, and that it will be more effective under the simulates of healthy rivalry with other institutions. There are departments of administration in which restrictive measures may be adopted. Here, however, we believe has restinively regulations will be well-believe the restinitive regulations will be incoming the state of the control of the state of the control of th

(b) It has been suggested to us that it is the ourpose of your Government to organise this University College under a Board of Directors, or benate, so that nominally at least it will not be a Government institution. We understand, however, that a majority on the Board or Senate will be official members. We are strongly of opinion that, however much Government may wish to avoid it, this College will be, in the mind of the public, a strictly Government institution We therefore believe that the experience of the Royal College will be repeated, and that few private gifts will be made to the College, and particularly that no donations will be made to it from abroad With this monopoly in higher education all private benevolence will be excluded from the field, from the University College, because it will be non existent. This we would regard as a great calamity. We believe that higher education should be put on such a basis as will attract generous private donors both as home and abroad, and we believe that this can be done best by giving other institutions a chance to do higher educational work on equal terms with the University College.

(c) We believe that the cost of apperting a stadeou to the University College in Golombo will be so high that the unjointy of boundary will be so high that the unjointy of boundary decountry destricts will be practically accorded from participation in its benefit. We are particularly laterested in attachest from the North, and we have no hesitation in saying that under the proposed arrangements an exceeding small number of one boys will be able to pursue the fall course of the control of the control of the control of the office of the control of the office of the control of the decident of the control of the control of the stady, and every many of our own secondary according to the control of the control of the stady, and every many of control of the control of the stady, and every many of control of the stady, and every many of control of the control of the stady, and every many of control of the control of the stady, and every many of control of the stady, and every many of control of the stady, and every many of control of the stady and every many of control of the stady and every many of control of the stady, and every many of control of the stady and every many of the stady of the stady and every many of the stady of the stady and every many of the stady of the stady and the stady of the stady of

Your Excellency will be interested to know that the value of a rupec varies greatly between Colombe and Jaffan Bard in Colombe at Rs 30 a mouth may seem moderate to Colombo parents, bests as prohibitive for the average Jaffan student For Rs, 10 or Rs 1250 equal service can be had in Jaffoa. We have no reason to believe that the cost of fution and board at the University College will be within the reach of the average student from the North.

(d) Without losing sight of the fact that all country districts will be placed at a disadvantage if a monopoly is granted to the University College, we would arge upon your consideration the special claums of Jaffus The Northern and Eastern provinces are peopled almost wholly by Tamile, whose aptitude for higher education no one will question Jeffus is the premier district of the Tamil provinces, and it was here that the pioneer institution for higher education was established as early as 1823 Ever since that time the people of the North have been keenly abve to the benefits of higher education. Until recently a full University career within the district was open to Jaffna students If we abandoned the Indian Universities, it was in the hope that, by falling in line with the Ceylon Education Department, we should have similar privileges extended to us. To centralise higher education in Colombo will be, for Jaffna, a retrograde step.

(a) Farther, the whole alead will be taxed for the support of thir College. It foos not seem to ne fair that one part of the population should be benefited to the almost compilete exclusion of the poorre sections of the people. We are gird that the College as the best exhibited, and we are seen to consider the control of the college of the Detail of the control of the college of the Detail of the college of the college of the Section I control of the college of the Section of the Archite the higher edication of the choldren of the Section.

5 We therefore, respectfully als port Government that inchanne for implier education be a modified as to provide for higher education as other centre than Colombo, that adequate support be given to other Colleges, particularly to those outside Colombo, which alter to municize to the needs of students in very moderate oriemstances, and that the students of said Colleges be admitted on equal terms with University Onlige attention to all caramentations and the colombo of the colombo o

G. In presenting this subject to your Excellency for consideration we would call attention to the fact that we are maintaining the position which the North has consistently held throughout the whole of the record discussion of the educational problem, as reference to the printed testimony of the men from the North before the

Education Committee will show. We believe that, in presenting this memorial, we present not only the views of those who are engaged in educational work in the district, but also the sincere desire of all educated men of the north.

TANJORE DISTRICT SECONDARY TEACHERS' ASSOCIATION.

VIII MERTING-THIRDERATUPPALLE, 878 NOVEMBER 1913.

It was 6 p. m. when the meeting as-embled. There were about 40 present, notwithstanding the incessantly pouring rains and stormy weather.

Mr. V. Vaidyanatha Aiyar of the Lutheran Mission Central High School, Shiyali, was voted to the chair.

Mr. N. Venkatachariar (of Thirokkattuppalls) was requested to give a brief summary of his paper read last time. In doing so salated that personal read last time. In doing so salated that subjects coming under B group started in consequence, that some or all of the last hours of the school day might be given over buying or being the personal read of the last hours of the school day might be given over buying the president instituted, in which boys might be reading what books they chose of the Library or Magazines or Newspapers.

Mr. V. Mahadeyan supporting in the main his predecessor's remarks stated that the 9 or 10 hours devoted to English was really too much and was partly the reason why English teachers were tempted to teach even 'Non-detailed' textbooks with great minuteness, thus defeating the object of the discrimination between 'detailed' and 'non-detailed' reading. The result of such work was not at all commensurate with the labour spent on it, the 'law of diminishing returns coming to operate in a very disheartening manner. Boys must be given their own time which they might spend according to the bent of their humours. Schools unfortunately ignored-if they did not positively discountenance-the value of such odd bours spent in school amidst books, megazines, pictures and other educative environments. Any knowledge thus unofficially picked up stuck to them and became their own in a far better sense than what formal instruction was poured upon them from the official chair. He would strongly recommend the retrenchment of time given to English: 6 hours

was enough, I hour more should be given to Geography and Drawing each.

Mr. S. K. Krishnamurthi Aiyar (of the Town High School, Kumbakonam) emphatically denonneed the practice of Drill and Gymnastics as at present taught; it was a veritable nuisauce, an infliction, a thing which boys despised and dreaded. Coming as it did at the close of the school day after nearly five hours of school-study within the closed school room, it must be a curre to the boys who would otherwise like to run about and jump and play and give scope to their pent-up spirits how they pleased. He felt so strongly that he would go the length of advising its abolition. Next touching the division of school hours into periods, he was of opinion that 40' was too short, the teacher having to stop his teaching just as he was warming to good ordent work. He would therefore fix a period at nothing less than 50'. So thought Mr. Keshavachariar (of Papanasam) and Mr. Sarangapani Airangar (of the Town High School, Kumbakonam), who suggested that drill had better be taught in the morning between 6 and 7; it had at least the merit of shaking off the drowsiness and lethargy of the boys and might promote the habit of early rising.

Mr. K. Seshu Aivar (of Mayayaram), would endurse the cartailing of English hours on one condition, viz., that teachers in charge of other subjects took care to insist in their bours on good and correct English from the boys. That not granted, even 10 hours was nothing too much-He vehemently inveighed against the teaching of Diementary Science as at present done, 'Elementary Science' was a bastard term that had found favour only amongst us. It was a most nosaroury hotel-potch of several sciences very unscientifically taught-a dash of Physics, of Chemistry, of Botsny, of Zoology, Physiology and what not, all mixed up together. He would advocate instead the teaching of any one of those aciences according to the convenience of each school. It was a B group subject and might be taught in any proper manner. The selection of the particular subject might be conditioned by the individual facilities of the school. If specialiard and properly taught, any one of these sciences might require three or even four hours a week. He next protested strongly against the exaction of home-preparation from the boys, whose life and energies were being already overtaxed by hardwork in school. Assuredly the curricula were too heavy and even advanced and they pressed over much upon boys and teachers alike. Why should not the schools think of making a humble profest? Next tomoting Drill, he was of opnomentals, bad a drill might be, it served one good purpose, etc., that of teaching boys coordinate and harmonious co operation, and incidentally remarked in a humbrons wen that satended and worked more effectively, if its members had been severely drilled to their days of ahool life

Ar Guruswam Sastras (of Thirukkattoppalle) objected to any kind of specialisation in B group science and opined that it was highly necessary and desirable that boys should know the radiments of as many sciences as passible, and elements of knowledge that no man of any pretensions to learning should be without

The Chairman winding up the discussion on this question observed that 25 hours a week being prescribed by the 'Llucational Rules it was not of the question to cortail the school time In regard to the breaking up of the school day into periods he believed 40' was quite time snough for a teacher well prepared for his work The SSLC scheme of studies had given rise to certain odd excrescences in the school time-table and if it was properly and reasonably worked might leave ample time at the disposal of the boys. For matance, the Mathematics boys (taking up Geometry and Algebra of the O group) might be spared a few of the hours of Elementary Mathematics, so Physics boys might not be present into Elementary Science Classes, sq. agun Tamil boys might be excused from some of the Tamil Translation and Composition Classes, In han History, he believed, was most wearisomely drawn out from the III Class upwards to the VI Form Except the History boys all the rest m ght be exempted from the Indian History hours when nothing but the stale old story is repeated He thought that even 8 hours was too short a time for Feglish and did not believe that feachers could, however much they would, insist on correct hoghed in other subjects than Luglish In regard to Drill be believed it was bad indeed, but he would propose reform and not extinction it m ght Le made optional with games, those not taking to games might well be made to undergo the disc pline of drill. Drawing for the matter of that was no better and might be taken in hand for reform.

Next came the question of "Verencelars in the S S. L. C Scheme." Mr R. Sabramana Aiyar (fam I Padist of the St. Peter's High bebool, Tanjore), made a very interesting speech characterised by good sense and moderation throughout. Vernaculars admittedly had not kent page with the onward march of things in India, they were indeed at least a century older than the men who spoke them : good and useful books were eadly wanting. There were indeed a good many Pundits who could write excellent Tamil, but they lacked the knowledge of modera smences and conditions, while those who were conversant with the latter could not not two words together without perpetrating a blander in spelling, much less two sentences without violating eacred grammar, Knowledge of modern Lind and language facility in the vernacular fought shy of each other The education of the masses would be, and was bound to be a meaning less but high sounding cry so long as vernaculars were thought to be not worthy the care of Unglish knowing Indians Now the S S L, C Scheme scemed to encourage the scanty regard paid to them Boys taking up the C group Tamil were really so very few as to be regarded a very negligible number A vast majority of Indian pupils were thus suffered to pass through the whole High School course without screping up so much knowledge as to enable them to write a decently worden letter to their parents and sisters or to speak passable Tamil to bis fellow brothren. This was really discreditable. There was sodeed Tamil Translation and Composition, but it received very scant attention, was bard to teach within the very narrow time allotted to it. He urged therefore that Tamil should be learnt by every hoy in school, at least so truch of it as to enable him to speak and write tolerably well If it could not, without extraordinary trouble and difficulty, be brought under A group which would be the best of all things, be would recommend that Tamil might be taken up in the B group which the schools had, at all events freedom to do Any way it behaved ts all to see that Tamif did not determate, but advanced with the advancing times, and if we did not bestir ourselves in this direction, we should be grievously sinning squiest our own nationality.

Mr V. Geranwani Stattare (of Threshattoppalle), ponted out that, whereas in Disuby, Bengal, etc., the vernaculars did not suffer in samilar conditions here, they fixed bedly awas inclined to ascribe this to their They in the North polo to one another in their vernaculars, addressed meetings in their vernaculars, addressed meetings in their retractive and write both in their vernacular. They are also also the condition of the condition of the condition of the contraction of the condition of the condition of the English to instant of the condition of the contraction of the condition of the condition of the English to instant of the condition of the condias could hardly speek folerable Tamil for however short a time without every now and then spiculating Beglish words and even realences. For his part, be would have Tamil taken over to the A group, and believed that nothing short of it would meet the case. Boglish had too many hours for it, and might very reasonably be made to give over two or three of its hours to Tamil. Ho was followed by the Tamil Pandit of the Thirukkattuppalle School, who, in his turn, deplored the present fate of the vernaculars.

Next spoke Mr. N. Kalyanarama Aiyar (of the Thirukkattuppalle School), who in the course of his speech observed that the absence of proper Tamil text-books could not be advanced as an objection to the proper study of Tamil, because here it was the demand that created the supply : the study of it would bring into the world good literature. It looked frightfully anomalous-if not unpatriotic-that we should commonly plead inability to address an audience in Tamil born 'Tamilians' as we were. There was no use of tinkering at the question by assigning to Tamil an hour or two a week and giving the vernacular work in charge of men, who, by their teaching of it, make it grow from bad to worse. Graduates or other men of English culture should be made to teach Tamil, and text-books should be prescribed, and the number of hours devoted to it increased to font or five hours a week.

Mr. K. Seshu Airar (of Mayavaram) would admit that things were going had indeed with Tamil, but could not believe it was due to any changes brought about by the S S. L. C. Scheme, He would rather ascribe the decadence of Tamil literature to some defective quality in the Tamilspeaking race that could complaisantly allow their mother topgue to languish and drift into the back-ground. If the contention was in the main to revert to the state of this ca before the S. S. L. C. he would ask how things had been better thee, what proficiency had we to show now as the result of training in the old blessed scheme. what good Tamil books we had now produced. The S. S. L. C. Scheme, if properly worked, might conduce excellently to the growth of the vernaculars. He believed that the High School course afforded scoops time for the callivation of the rereaculars from the lowest class up to the highest, and however much they might think to be fettered by the S. S. L. C. carriculum in the V and VI Forms, they had a perfectly free hand in Forms and classes down below. If there was really any sincere and gennine enthusiasm of the rernacular in us, we had better order things properly where we might and could.

and we should then have bardly cause to supplicate higher powers for help. He suggested the introduction of latter-day books in Tamil, and thought we had had enough of 'Koral' and other classic works of old Tamil, which might however, by all means be studied by specialists und enthysiasts.

The Chairman in his lucid speech expressed his disapproval of making the vernacular study; obligatory on all. He inclined to think the S. S. L C. Scheme had done very wisely in making the detailed and thorough study of the vernaculars optional, while it demanded of all a tolerable acquaintance of them, Testes, aptitude and enthusiasm could hardly be forced or strained; freedom was essential to healthy growth, and constraint might only queuch what fire there might be. He, for his part, would exonerate the S. S.L. C. Scheme from all blame in this question of the vernaculars; the destiny of Tamil was largely in our hands. He would question the wisdom of the proposed scheme of making Tamil study compulsory on all, while only few enthusiasts might develop into Tamil acholars capable of writing good books on modern knowledge. He feared it would prove undue waste of youthful energy which might else bear good fruit.

Mr. Seehu Aiyar next moved the following proposition which was duly seconded and passed numicously:—

"That in the opicion of the Tanjore District Secondary Teacher's Association, one of the baways of improving the vernaculars is to pay greater attention to vernacular composition in all the classes of a secondary school from the HI class operand (i) by prescribing text-book in the vernaculars for non-defailed study and (ii) bay correlating the other subjects of the secondary school curriculum with varnacular composition both real and written."

After a vote of thanks to the Chairman, the meeting broke op. It was now 10-30 r.w. The Thirakkatteppalle School steff invited the other members of the Association to supper, which was sumplease as it was accellant. These were committed by barded in the school for the night notably barded in the school for the night passats felt for their averal tactions. Mr. Stack has the school of the school of the night ingam Aiyar and the staff were exceedingly kind and obliging and could not enough be thanked for their horpitality.

EDUCATION IN THE MAGAZINES.

(INDIAN)

Mass Education.

by Mr K S. Appaswami Iver

Under the agences of the Teachers' Association, Madora, Mr K. S Appaswamy Iver, Sub-Assistant Inspector of Schools, delivered an interesting address on Mass Education.

Mr Appaswamy Iyer devoted a major portion of his address in criticising the Houble Mr Gokhalas Bill He said that Mr G khala's Bill would prove ineffective in urban as well as rural areas. Their immediate duty in the case of towns was to bring about those corditions which were necessary for the introduction of compulsion and that in the case of villages the people would have to co-operate with the Educa tional Department in order that their efforts for spreading education might not fail. He warned the audience against attributing to the Grapt in And Code those d ficulties in the position of the schoolmasters which were really caused by the growingly illiberal attitude of the aducated people towards them The lecturer also condemn ed the proposal of the Hou ble Mr Kriebus Rio to place the educational inspecting officers under the control of the Local Boards What was needed was that funds should be made available for providing accommodation to pupils in the schools now in existence and for increasing the smoluments of teachers They had enough of work to do in organ sing their schools, in understanding their conditions, their needs, as also sesking reasonable belp from the Government and in exerting themselves to replace the low ideals of ignorant people by better ideals. In all these matters active help from the people was necessary. In the tural areas the problem of attendance in schools should be brought home to the villagers to addition to the pecuniary support that should be given to schoolmasters The question was whether any kind of compulsion could be introduced in schools at the present stage The Government proposed to double the schools by adding 91 000 to 100 000 schools at ready to existence The Government alone should not be expected to undertake to contribute the whole cost of education for they had too many projects requiring additional expanditure on hand There was no use in making a vague appeal to the Government and the people should all feel certain in what particular ways and to what extent the Government should help them.

More active and organized work by the various educational committees was needed, not for check matics the work of educational officers but for co operating with them

The Indian at Cambridge,

by Mr. R. L Turner

Mr R L Turner, of Christ's College, Cam bridge, who is shortly going out to India to take up an appointment as Prifessor of Litera tore and Sanskrit at one of the Colleges in Benares has been ducussing 'The Indian at Cambridge," in a paper read by him on November 10, before the Holford Secrety in Cambridge He pointed out that the position of the Indian student in Cambridge to day was not a happy one He did not stand on an equality with others People neked " What do these niggers want here? They have their own Universities in India Why don't they stay there?" But in India education was an entirely utilitarian affeir If Indiana asked for something better than that, were we to refuse them? To great numbers of men their time in Cambridge was a very real moral stimulos, strengthening their faith and giving them new ideals The question which all who came into confact with ludians must ask themselves was "Ate we willing to allow Indiana to share in this privilege?" Unless they were willing to take him as a social equal and admit him to their social intercourse that privilege was denied him One type of objection with which he had no sympathy was that of the man who said "If you try and make friends with ludians they will always be hanging on to you and your friends will fight shy of you there were other difficulties. The Indian was very shy, he was indeed a stranger in a strange land Then he was very watchful against any thing like patronago. If Englishmen would not have him on his own account he preferred to be left alone. In this way the efforts of well meaning people had brought harm during the last few years The Government of India had made efforts in recent years to improve the position of Indian students coming to Logiand, but these efforts were often looked upon with suspicion by Indians The Indian had not yet come to realise that the motives of the Government might be disinterested, and it was bis (Mr. Torner's) firm conviction that it was almost hopeless to expect that any official action would be calculated to bring about a better understand ing between Englishmen and Indians It lay with fellow sindents mostly to remove the ignorance and credulity which existed in India by giving them a true idea of what our attitude in England was towards the people of India. The semi-official compact with the colleges that they would not admit more than two Indian freshmen every year, although a step primarily for the benefit of India, was the cause of great tesentment, and matters had not been improved by a speech of a high official in the University. who in an address to a body of Indians whom he had invited to meet him, used words to this effect: "We don't want you here at all, but since we must have you, try and behave yourselver." There was very little doubt that the feeling of hitterness and resentment to-day was considerably worse than some five years ago. Owing to the atmosphere of suspicion the Indian student was by no means so ready to-day as be used to be to meet the advances of Englishmen. But some had homes to which they could invite Indians. If the Indian was to carry away a corn ct idea of English people he must see something of English home life. Others might meet Indians in business. Others who never came personally into contact with them could speak up in any circle where they beard the "black man" spoken of in slighting terms. To the young members of this generation was entrusted the great task of forming the moral and intellectual atmosphere of the next generation. It was for them to see that Indians went back to their country with a better idea of English people than that in which they came - India.

Education in Alwar, by His Excellency the Viceroy.

by His Excellency the Viceroy.

In the course of his reply to the Address
presented by His Highness the Maharajah of Alwar,
His Excellency the Viceroy spoke as follows.

As regards education Your Highness is to be congratulated on being represented at the Mayo College by more boys than any other State in Rainutana. You were there yourself and your father was the first pupil extered there, and I look upon the support you give it not only as a testimony to the affection and respect the Mayo College inspired in you, but also as an indication that Your Highness has realised the importance as well for your nobles as for the prosperity and stability of the State of building up for your assistance and support an educated and an enlightened aristocracy. When Lord Micto visited Alway in 1909, Your Highness emphasised the importance of religious and moral education, and His Escellency spoke of the special opportunities possessed by an Indian ruler-

It cannot be disputed that in the training of the prong, moral instruction is almost powerless without the sanction of religion. In this respect Your Highness is free from many of the difficulties which hamper us in British India, and Your Highness has made wise use of these faroundconditions by making religious and moral cdacation computery in the State crebois. I carnestly hope that the seed now being town will bear ituit in the shape of sturity, Joyal, and Ged-feating

(FOREIGN.)

The Practical University, by David Starr Jordan-

An andience composed of those who are connected with the work of education in London listened to an entertaining lecture at the Birkbeck College, London, on Sturody, Norember 19, by Dr. David Start Jordan, Treident of the Leboud Stanford Joinor University, California, Mr. J. W. Gilbert, Chairman of the London County Council Education Committee, presided.

Dr. Jordan, whose subject was " The American University," said that the words of Emerson, "America means opportunity," supplied the basal idea of the American University. Their University institutions were not intended to maintain any kind of tradition or system : they were intended to meet the people's needs. What was best for one might not be best for another, and it was not for any educational board to say that this study was more valuable than that, It was for the student to find out which things were worth most to him. Some time ago a professor spoke of New Zesland as a Greekless country. He also spoke of it as a province of Australia; and that raised the question whether it was worse to be ignorant of Greek or ignorant of the condition of New Zealand. Some would be ignorant of one and some of the other, and some that were ignorant of both would be the finer scholars because they knew something better, for scholarship depended on the thoroughness of their knowledge in its relation to the affairs of human life.

In tracing the development of the Universities in the United States, the lecturer said that subsul 1888 the Act was passed which allowed for the gift to trary State of a large amount of land on condition that a University was established, which was to teach, among other subject, agginultrees and the mechanic arts, and that brought engineering and agriculture into the vary capture of their University spates. The work of the University Chaircrafty spates. The work of the University

was to bring scholars together, and if he was to offer a word to London upon the University question he would say "Above everything bring together all the fragments that are scattered over the city ' There were only two great capitals in the world that had no great University-Lindon and Washington The University was not the place for men who neglected work, and in the United States they were moving more and more towards testing a man's work as he went on and sending him bome to think about it if it was unsatisfactory He bimself once sent away 131 men to one day They had generally agreed that prizes did not help scholarship, and most of their institu tions had discarded honours for the same reason. Fellowships and scholarships they felt very doubtful about He thought that the abuse of them had been greater on the whole than the good tesults In most of their Universities, if they excepted those under the old influences, mon and women were admitted on the same terms, and a nothing would induce the Western institutions to thange that system One result of reaching out for all kinds of talent was an enormone increase of students In California, where the population numbered 2,000,000, there were 8,000 University students

Self-Education, by Arthur Mee.

It has been said that at school the boy is not sducated, but taught how to educate himself in later life This point of view was emphasized in a leading article in the "Morning Post, the writer stating that the strongest criticism made of a student teacher is ' the teacher was giving to children information which he ought to have led them to discover for themselves" It is this position that persons interested in education are taking up. The general failure of E glish education in the primary schools is due to the forcepump system. Facts and figures are pumped in but not retained, and every effort is now being put forward to make children's brains acquientive and not receptive Teach yourself, and you will be laught thoroughly Open the receptive cells to the tutorial pump, and the pressure of everyday life and business will drive out the factual stoff numped in.

It may be argued that it is all very well to degratise on the matter, but where and how his the nan or woman, youth or guil, to the him or beareif. This is easily neavered Observed for it is the greatest educator, asided by dedection. To this must be added a synthic comprehension of your subject A weak that will bely you to do like is the "New Harmsworth Sall Educator,"

published forting tily at 7d. each issue, and edited by Mr. Arthur Mee. The Editor's opening article on success is sound in every word. The making of much money does not mean success, and Mr. Gradgrind is put in his proper place. Mr. Mee writes —

Success is the working with a dauntless will and a fearless beart, and a stainless soul, of the thing we are in the world to do. It is not for us all to see the end of our labours, but the success ful life is the life that is nobly spent, building op, it may be, to some far distant end, but building upward always, adding an enduring part to the immortal achievements of mankind upon the earth The man with this unselfish purpose succeeds, whatever the world may say. "They never fail who die in a great cause" In that noble linefrom a post whose life was perhaps a failure-we may fix our measure of success. The self educator sets no parrower aim before as than this woold have a man live for great ends an i pursue them by worthy means, it would have him seek a prize that is worth the winning, and have him win it We must fit ourselves for our work, we must hold our heads high in the world

Higher Education, by Lord Haldane

Lord Hildane opened the new buildings of the Applied Science Department of the Sheffeld University and in his speech indicated that & close connection would be maintained in felore between pare and applied science in Universities, pointing out that this was necessary if we wonto-hold our own in the face of the rapid develoption of the property of the control of the Germany and the control of the control of the Germany and the control of the control

The whole question of higher education, he said, had been ander consideration by the Gabrier said, had been anner consideration by the Gabrier. They had there were the question of Education of Education. To begin with, there was a Gometier, which although normally connected with the Treasury, had great freedom, and grant a much larger some of money upon the Universities and University colleges than eard to be spent in the old days.

"For the last swrite months," the Lord Chancular countried, 'Three has been agrist dad of activity about this homess of national education My colleages, Mr Peas, with whom I am in very frequent communication upon these subjects, in carriage out what I bales to be an ealgebreed policy. Hen treating to the very high y expect officials whom he has one got at the Board of Education, and he is consulting the education authorities throughout the cosating.

The local educational authorities have done splendidly, but the burden upon them has been very heavy. The nation will have to make up · its mind to give considerably more out of central funda.

I am glad to say the plans for these advances are now fashioned. They have been under coneideration practically the whole of this year, and we know exactly what to do in order to make advances if we only have the nation at our back. That is the question. And why I came here so gladly is that it gives me an opportunity of bringing that great national cause before you. 1 hate any idea of increasing expenditore, whether out of local or national sources, if it can be avoided. It is salvage money, and unless you spend it you will go back as a nation, and your revenues by which you keep up your fleets and your armies will begin to shrink, because you will not be bolding your own in that great industrial position from which your power and your wealth have come."

Advice on Lecturing, by Mr. A. C. Benson

Mr. A. C. Benson, in an introduction contributed to the fourth volume of 'The Book of Pablic Speaking, has something to say on the art of lecturing. He holds that 'the ordinary leaturer must choose between two methods; he must either deliver, solemply and emphatically, his written discourse; or else, if he dares, he may speak as informally and conversationally as he can; and the second method is incomparably the best.' Carlyle used to 'speak his lectures,' although overwhelmed by agonies of pervousness. For 'days before' he said, 'drink as I would, my throat continued dry as charcoal,' and he used to atumble to the platform drugged and bysterical before the lecture, and go away at the end feeling like a man who had been robbing benroosts; and et, with a sort of triumph at the thought of the innandale accent 'gollying at his well-dressed

indience for over an hour. Ruskin, Mr. Benson recalls, used a mixed method. He used to begin by reading an elaborstoly written paragraph or two, and then, as he gained could ence, he would desert his manuscript altogether, talk in the most frankly conversational way, and even, as happened in his lectures on birds, imitate the gast and flight of crows and awallows, as far as wingless biped could.' On the other hand, Mr. Gladstone has been heard to deliver a long lecture on a Homeric subject, fall of curious learning without a single note and

phrase and a magnificent. accompaniment of oratorical gesture. Mr. Benson's own method is to write the whole discourse, and then 'golly' it out with what emphasis and vehemence he can muster. The one point he has learned by practice is the absolute necessity of clear counciation.

Another important point is to get into human touch with the audience: 'An address delivered solemply and pontifically may possibly be impressive; but it can bardly inspire. The best plan is to sweep the faces of the nearer listeners, find a sympathetic person, and deliver one's lecture at him or her. I have known the whole tone and corrent of an address changed by a legiurer breaking into a responsive smile at some smiling hearer." The real object of lecturing, Mr. Benson asserts, is ' not to communicate information, but to try to plant germinal ideas in the mind, and to arouse cariosity, not to satisfy it.

Reviews and Hotices.

PRELIMINARY CHEMISTRY,' BY H. W. BAUSOR, M.A. PUBLISHERS: W. B. CLIVE, LONDON (UNIVERSITY TOTORIAL PRESS) 1s. 6d.

In this bandy treatise, the author has eminently succeeded in the task he has set before himself, of providing a course in Chemistry for beginners. There are many features to recommend it as a valuable guide to young learners in understanding the elementary principles of Inorganic Chemistry. The arrangement of subject-matter, the nature of experiments and the clear instructions for doing them, are all such as can be desired. It is note. worthy that too much reliance is not placed on hearistic methods and that, therefore, it is free from a defect, which, unfortunately, is noticeable in some modern publications on the subject, and which, anless carefully goarded against, rather lands the beginner into vagueness and inaccuracy, than aids him in acquiring a definite and coherent knowledge of the subject. To each chapter are appended a summary thereof, parctical exercises that may be set on the perform, and a number of questions exhalated to impress clearly on the learner's mind the principles taught in each; thus the neefplaces of the book is greatly enhanced. The diagrams are, no doubt, neatly draws; but we should like to say that it would have been far more useful, if, instead of the sketches being represented, some in perspective, some in section, a uniform method, (desirably employing all the time 'a sustained felicity of ; eccional diagram) had been followed,

Characteristically ecough of the Publishers, the printing and the general set up of the book are seculeta, and the price is moderate enough for such a good treates. We venture to think that, with a few additions to its ecope, such as the study of Nitries oned, and the most important and useful metals and their compounde, it will form a smithly text book of klementary. Chemnity for use in the lower forms of schools in this Presidency, if not nother provinces also as well

*Organic Chemistry," by Julius B Cohen, Ph D, B So, FRAS, Poblishers T C and E C Jack, 67, Long Acae W C, Los dos 6d mt

We see an apology to the Publishers for the delay in reviewing the book The Science of Organe Chemistry is of no less importance and practical tituly than other ones in the economy produced tituly than other ones in the economy can be applied to the control of the control of

The author has cought to present the elements of this science in a clear and interesting form to the reader of average intelligence and has, it must be said, well succeeded in the task The introduction deals with the original meaning of 'organic' and the gradual widening of the scope of the subject due to the application of science to the several departments of industry, such as dyeing, tanning, manufacture of candles, soaps, inks, papers, glue, artificial silk, perfumes, explosives and photography Then follows an account of the trend of scientific thoughts that led to the couclision that Organic Chemistry' is governed by the same laws of combination and affinity, etc., as 'Inorganic Chemistry' A few pages are devoted to the study of the preliminary processes, terms and expressions requisite for a clear study of the subject, e g., purification of a substance, fractional distillation, molecular weight, molecular and empirical formula.

Amonget the subject-matter which the book treats of in greater or less detail, mention may be made of the petroleum and parsfilm industry, properties of halogen compounds; alcohols and their structure, the manufacture of beers, wines and spirits; the fatty auds, steams candles; clafles; glyperine;

carbohydrates, oxalic, tartaric and citric acids, rotatory polarisation, the proteins, coal tar and its products, ris phenois, benzoic acid, camphor, and indigo, and artificial dyes

The printing and the get up of the back are very fair and the precentment of matter is as simple and attractive as the nature of the subject will allow. We should like to recommend that will be a useful guide to persons distons of acquiring an elementary knowledge of Organic Okessuity

PROBLEM PAPERS IN ARITHMETIC FOR PREPARATORY
SCHOOLS, BY T. CGOPER SMITH, M.A. GENERAL
EDITOR: WILLIAM P. MILNE, M.A., D.Sc.
(G. BELL AND SOME) 1: GJ

This small solume has been written with a view to aid mathematical masters of preparatory clarses The book contains 5 sets of papers divided into 20 parts of 5 questions each, and is specially useful for teachers who prepare boys for the Junior Examinations of the English Universities It is not however quite adapted for use in all the preparatory classes of the Indian schools, as intended by the author, but an intelligent Indian teacher will find abundant examples in Arthmetic for the 4th class of the preparatory schools, and for all the three forms of the Lower Secondary Department. There are also some portions suited for the 4th Form of the Upper School such as the advanced questions on square and cubic measure requiring a knowledge of Pythagoras' Theorem (eg Paper E-18, 1) and of Involution and Evolution. But the ment of the book chiefly lies in many suitable examples that may be intelligently solved graphically such as those on time and distarce, &c., (eg Paper C-3, (1), 5(1), 7 (1), 9 (1), D 1 (1) &c Same of the papers especially in the latter part contain a good number of problems that may be easily solved by equations There are also to be found many typical examples on the four simple rules that may serve for graptical illustration in the Lower School.

We may also suggest that some easy problems requiring a knowledge of metric system and decimal fraction, and of Iridan count, may be introduced then and there. On the whole we are inclined to think that the book will be useful for the middle forms. It will also be a valuable addition to the Trackers' library of the school. * THE ATMOSPHERE," ST A. J. BERRY, M.A. (Untversier Press, Cambridge). 1s net.

This handy book contains a brief and clear account of the discovery of the constituents of the atmosphere and of their properties.

The first chap'er deals with the conception of the composition and properties of air in early times and the several stages that led to the formation of correct notions thereon. The principle of horror tacui (i.e., Nature's abhorrence of a vacuum), by which the ancient philosophera including Galileo explained the phenomenon of section in syringes and pumps, and which remained current tell Torricelli discovered atmospheric pressure; the valuable services rendered by Torricelli, Pascal, Guericke, Robert Boyle, Marjotte and Charles, in the development of the study of 'air pressure' and the construction of appliances for its measurement, all three are described clearly enough to be easily grasped by the eager learner. Chapters if and III give an account of the 'Phlogistic Theory' of combustion, and the decline and fall thereof, and of the contributions of eminent scientists like Priestley, Cavendish, Dalton, Lardisier and Avagadro, which led to a new era that might be termed the beginning of Modern Chemistry, based on atomic theory. Modern views on Combustion are treated of in chapter V.

The principal constituents of the atmosphere, their important properties and the part they play in the economy of Nature are mentioned in chapter IV, while chapter VI is devoted to the constancy of "atmospheric composition." A brief explanation of the 'kinetic theory' of gates and J. Stoney's views regarding the escape of gases from planetary atmospheres are found in chapter VII and the next one deals with the formation of liquid oir and its properties. In chapter IX is traced a brief account of the endeavours of great scientials such as Raleigh, Romany, and Dr. Travers in discovering the existence in small quantities of the gases, Helium, Neon, Argon, Krypton and Xenon, Chapter X treats of the Radio-activity of the atmosphere,' a subject which is connected with many startling modern disporeries in Science and which offers an almost unlimited scope to future scientific exploration, while chapter XI closes the book with a study of * primitive atmosplers."

This is an excellent hand-book and will be of imments use to an ardent learner in providing broadel with a clear and simple account of the greath of the subject from the extinct times down to the present day. Dry as the details must be

to any but the most extreat students of science, they have been presented in an interesting and inviting manner and the author is to be congratulated on his eminent success in the task as the baseliness. It is a success in the task as the similar of some of the greatest workers in the scientifies field correct by the book, (Robert Boyle, Joseph Priestley and Joseph Black) add to the usefulness of the book. The printing and getup of the book are excellent, as is characteristic of the publications of the University Tutorial Press. We can recommend the treatise as a valuable guide for the study of the Aumophers.

BELL'S ENGLISE TERTS: ENGLISH ELEGIAGE; SELECTIONS FROM CHILDRE, POEMS BY JOHN MILTON; POEMS BY LOSE BYRON; MACRIERY'S HISTORY OF ENGLISH, CHAPTER III; PLC-TARCI'S LIVES OF CESAR AND CICERO, (GLOSSE BELL AND SONS) 63. ecol.

The general study of literature is facilitated by handy editions of masterpieces, like those which Mesers, George Bell and Sons have now issued. They are just what editions of plain-texts ought to be-cheap, neatly printed and neatly got-up, and the selection of pieces made with taste and discrimination. A collection of English Elegiacs has been a long-felt want and it is supplied by one of the volumes in the Series, which has Lucides, Adorgis and In Memoriam. The addition of Gray's Elegy in a Country Churchyard and Matthew Arnold's Thyrsis could have completed the list of the chief elegiac masterpieces in the language. without increasing the size of the book materially and we rather regret their omission. We may also observe there might have been some general remarks on Elegisc Poetry in the Introduction. The Selections from Chancer are eminently satisfactory, comprising as they do the Prologue, the Knight's Tale and the Prologue to the Legend of Good Women. One may however venture to ask whether the bumour of Chaucer is adequately represented in this selection and whether it might not have been better to include a piece like the Nonne Priestes Tole. We are also sorry to notice the omission of a glossary at the end of the book. which would have been necessary even for those who have made some progress in the study of Chaucer, much more so to the general reader. Nobody can ask for a better representation of the postry of Milton, than the pieces included in this volume, the first two books of Paradise Lost. L'Allegro, Il Pennessa, Lycidas, Cours, The Morn. ing of Christ's Natirity and some of the best Sounds We have nothing to say against the choice of pieces from Byron, except that Childs Harold need not have taken up 91 pages, out of the 120 in the book

Turning to the two volumes devoted to prove. we are glad to see the publishers have begun with Plutarch and Macsulay There can be no intellectual food more wholesome and ennobling to the young student, than the piges of Plutarub, and the lives of Cosar and Cicero are the best that could have been selected in the circumstances. If they do not illustrate Plutarch's desire to see some parallelism in the lives of certain beroes of Greece and Rome, they represent two careers, widely different to aim and action, which also seem to supplement each other The third chapter of Macaulay's History of England 18 particularly useful as a corrective to a characteristic weakness of the Indian mind, the indiscrin mate idealisation of the past and an unwillingness to recognise the advancement of recent centuries To the student of History it is of course invaluable as giving the most comprehensive and picture-que account of England in the times of James II We have great pleasure in recommending the books for general study in our schools and colleges

BELL'S POSTEY BOOKS, PARTS I-VII (GEORGE

BELL & Sons) 3d each Messre. Bell & Sons deserve to be congratulated on this excellent beries of Poetry Books. The selections have been made with a fine appreciation of the essentials of poetry and are arranged in the books graded according to their difficulty It is a good thing to have the contents of all the parts in each part, so that a comprehensive idea of the entire range of selections is afforded by merely glancing at these pages. It is probably not possible to get selections from standard authors, for the elementary books in the Series, but the later volumes need not have included extracts from writers who are not even third rate poets choice need not have extended to E M Holden, A. A. Proctor, Norman Gale, H. O Beaching, Mrs Norton, Samuel Lover, Rev Neale, Edward Thring, Charles Dibdin, Les Hamilton, Gilbert Thomas-all of whom figure in Bke, V, VI, VII. Literary taste cannot be too aristocratic in such matters

Professor regrets the non inclusion of the retarculars among the compiliors yadjucted of the University controllim. We are not sure if the introduction of resprocal translation in the place of vernacular composition, which is now compulsory in the Intermediate Classes, will result in any great improvement of the vernacular. The suggestion is however worthy of serious conaideration as it emanates from a scholar of simnence.

THE DOSNIAN UNIVERSITY OF THE WORLD, BY D. D. VACHILL, B.A. (FOLT PRINTING PRESA, BOMBAY) B & 40

This is a humorous shi ton attempts to mais University decision as comprehenaire as possible Here is a group of suggested subjects. "Industrial Ediscues, English Lit. Texts, Human Economy, Religion of God," and so on. We full to see any necessity for this kind of grotergos cancators, dewe have not beard of any moderic of efforts at word toking. University current an understand wearmone and consists in the mere enumeration of the most varied subjects in groups.

OLD TIME STORIES & OLD WORLD CUSTOMS, I-III,
BY GERTRUDE CATON, (MICMILIAN & CO)
6d. e2ch

Old True Silvers and Old World Customs are a series of very extentinuing and nativative books. The takes are narrated in the most channing manner possible, and throw connectable light not only on the History and Geography, but also on the religion and popple of named Asyrus, 1279. Pelestane, Greens and Roome Evenad vancet was with the The authories has kinen great pine to make herself understood by children and her gift for story tellings not every high order

Gr. ALOYSICE COLLOR, MINOSIORE.—We have received the annual report and pure list for 1912. 13, of the St. Aloysune' College, Margalore. The pract constitutes a record in pound of strength is the students number 1,312 as against 1,128 of the black of the students and the students are supported to the Science Laboratories, the most important of which is the accompluhment of the Electron of which is the accomplument of the Electron of the

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HOPE OF THE VERNACULARS, BY A R RAIABADA VARMA, M A., M R.A S (KAMALALATA PRINT-ING WORES, TRIVADDRUM)

This is a speech by Professor Rejaraja Varma of Trivandrum in defence of the Vernaculars The

THE UNIVERSITIES.

MADRAS UNIVERSITY,

Special Mathematical Lectures.

A course of University lectures, about twenty in number, will be delivered by Mr. E. H. Neville, Fellow of Trinity College, Cambridge, beginning about January 5, 1914, and lasting about five weeks. For the benefit of those who can attend the lectures for only one week, the lecturer will deliver in the first week, two lectures on "The Nature of Real and Complex Numbers" and two lectures complete in themselves on "Differential Geometry." The remainder of the course will be taken up by a more detailed treatment of this latter subject. The subject of the main course is " Moving Axes and Differential Geometry," and only such persons are likely to benefit by it as have read up to University M. A. Standard in Mathematics. While the lecturer will employ an original method, those who wish to attend are recommonded to consult (after one of the usual text-books) either Darboux's Theorie generale des Surfaces or Elsenhart's Differential Geometry. Those who wish to attend these lectures should apply at once to the Registrar, University of Madras, for tickets of admission, stating whether they wish to attend during first week only or during the whole course. Those who are not Masters of Arts of this University are requested to inform the undersigned of their standard of Mathematical attainments.

Elections.

Elections for the two vacancies created by the resignation and retirement of Mears, C. A. Smith and A. B. Strange among the ordinary Fellows elected by the Elections, and for two vacancies created by the retirement of two vacancies created by the retirement of the Hondble Mr. V. S. Smithvasan and Mr. P. Lakshminaran, among the ordinary Fellows elected by Registered Graduate, will be beld on Saturday, the 10th January 1914, between 1 and 3 r. X.

Change of Examination Dates.

It is notified by Mr. Francis Dawsbury, Regutrar of the University, that the follow-XXI

ing examinations which should be held commercing on Monday, the 6th April 1914, encording to the Regulations will be held instead commencing on Monday, the 80th March 1914:—(1) The B. A. (Honoury Gegree Examination.—Part II; (2) The M. A. degree Examination; (3) 1st L. M. and B., 1st M. B. and B. S. examinations; (4) F. E. and B. B. degree Examination; (4) F. E. and B. B. degree Examinations; (4) F. E. and B. B. degree Examinations;

The following examinations which should be held communencing on Wednesday, the 15th April 1914, will be held instead commencing on Monday, the 6th April 1914.—2ad L. M. and S. Final L. M. and S. 3rd M. B. and B. S. and Final M. B. and B. S. degree Examinations.

It is notified that another practical examination for the L. T. Pegree under the old Regulations will be held on Wednesday, the 15th April 1914. Applications for educations to the Examination from andidates who have passed the theoretical teat but have yet to complete the degree should reach the Registrar in the form prescribed not later than the 1st Pabrary preciding. No candidate shall be admitted to the examination unless he has previously paid a fee of R. 20.

CALCUTTA UNIVERSITY.

Address to His Excellency the Viceroy.

At a special Convocation of Senate of the Calcuta University in the Throne Room of Government House on the 26th inst., the Vice-Chanceller read out an address to the Viceroy as Chanceller of the University and presented is with a silver casket. In the course of his address the Vice-Chanceller said the University would have to appeal for financial assistance to the Government for the development of the work of the University especially in regard to the higher post-graduate study. He

for the preferment of honorary degrees.

Professor Vinogradoff for LLD., Professor Jacobi for D. Litt., Professor Young for D.So., Doctor Rasbbehary Ghose for Ph. D. Mr. Rabiodranath Tagore for D. Litt., Mr. Haynes

for D.Sc.

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His Excellency the Viceroy in the course of his reply spoke as follows My Government has already received proposals from the University of a very extensive character and we are anxiously considering what in the light of experience here and elsewhere are the lines on which it will be most profitable to advance when the general policy has been laid down in broad principles in the Government of India Resolutions of the 21st February last. The application of broad principles to practical conditions is a matter calling for much knowledge, experience and patient investigation. Especially in a country so circumstanced as India, I have no doubt, however, that in the fulness of time our University, thanks to the gifts of generous donors like Sir T Palit and Dr. Rashbehary Ghose and the assistance of Government will become a centre of far radiating influence for the higher education of the territories within its academic jurisdiction I whish you, Senate of the Calcutta Univeruity, every good wish and I can assure you that I and my Government are not less interested than yourselves, in all that pertains to the progress of education in the highest sense of that term, which includes the forms. tion of character, the cultivation of mind and the dissemination of an ever-widening influence of engagement.

THE PUNJAB UNIVERSITY.

Convocation.

The annual Convocation of the Punjab University was held on the 23rd instant, flie Honour the Lieutenant Governor as Chancellor, presiding. An address was delivered by Dr. Ewing, Vice-Chancellor and it took the shape of a moral discourse laying emphasis on the kind of character that University aducation was expected to develop. In view of the social, intellectual and moral requirements of the country, Dr. Ewing said; "Personal character, clear, strung, definite and true is a quality the absence of which in an individual to whom is assigned the position of leadership or who arrogates, to himself such a per too, to commanily can afford to Referring to the growth of commercial activity in the country Dr. Ewing gard ; " It to the preminent feature of the times," he continued "I take it that most of us do not set a high value upon honcety only because it is the best policy. Yet we are not thereby precluded from recognising the expediency, utility and necessity of high moral principles throughout the entire domain of trade an I commerce." Concluding Dr. Lwing said "Unselfish patriotic service performed for the welfare of those whose opportunities and privileges have been fewer than yours. works persistently done free from light of self-advertisement and rendered effective by tact and skill of which your training has made you masters, it is upon these that your equipment and environment animon you to enter."

ALLAHABAD UNIVERSITY.

Proposed New Chairs.

The Convocation of the Allahabad University took place on the 15th ultime. The Hon'ble Dr Sunderlal, C I. E. Vice-Chancellor, presided and delivered the Convocation Address which has been published in this number The Vice-Chancellor referred to the establishment of the Faculty of Engineering and the non extension of help to the Thomason College, Roorkee. He announces that the Government had given their approval to the establishment of University Chairs in Economics and Modern History and expressed their willingness to establish a third Chair for three years. The Address concluded with an carnest appeal for higher studies and research at the Universities

Elections.

At the University election hald on the 22dd ultimo, Pauldi Goharan Anth Misre, Pauldi Ighal Narain Gortip, Pandit Mesol arial Zeitahi and Professor Canadi Prasa Areber elected Fellows of the Allahabad University by the Regulared Graduate. Surgest of the Allahabad University by the Regulared Graduate ton, and the second of the second of

Indian Educational Actes. MADRAS.

H. E. THE GOVERNOR'S VISIT TO SCHOOLS.

The Reja's College, Parlakimedi—At this College His Excellency was received by the Zemindar and Mr. A. E Cotton and was conducted round the buildings by Mr. E. Winckler, Principal.

Before leaving the College. His Ercellency made the following remarks in the Vatient's Book -- "This College may I trust long continue to be a source of ere-widening secritors and good influence and of pride to Pariskinedi. It is well meaning and directed, well equipped with buildings and with directed, well equipped with buildings and with will no doubt be taken to keep it abreasy of the advancing requirements of decestion."

His Escallency then performed the interesting coremony of hying the foundation stone of the Morrison Estession of the Rajix College and declared the foundation-stone well and truly laid. The Z-mindar then garlanded His Escellency and cheers were called for him which were heartily responded to Cheers were then called for and answered lustily for the Z-mindar.

Uriya Girla' School. Parlakimedi.—Leaving the College, His Eccollegov and parity motored to the Uriya Girla' School where they were received by Han Bhadarf B S V. Sarma, Estate Manager. Han Bhadarf B S V. Sarma, Estate Manager at the College of t

Telugu Girls' School, Parlakimedi — His Excellency and party visited the Telugu Girls' School where, also, His Excellency the Governor was received by Rao Bahadur B. S. V. Sarma.

His Excellency soutered the following remarks in the Visitors' Book :—"This is an excellent school doing good work which is evidently much appreciated and I wish it success."

and saw the library as well as the drawing class at work. More than an hour was spent in inspecing this interesting institution.

Maharaja's College, Vizianagaram.—At this College, His Excellency was received by the Raja and Rao Bahadar K Ramanja Chariar, Principal. The College has an socient origin and has been patronised liberally by a long succession of Maharajaba and Rajaba of Vizianagaram.

At the coordision of the inspection His Exellency was conducted to the Dureit Lotrary where bad saverabled the Principal and students of the Sanskrit College. Some attochment which was furnished to the Land of the College of the College of the College His Excellency An elderly attouch then resided Sanskrit werse composed for the occasion in prace of His Excellency. Principal Bananuja Chariar then garlanded Lord Penland, and other members occupients His Excellency is party.

Government Girls' School, Vizianagaram.—At this School, His Ercellency was received by Mrr. S. Kameswara Rac, Sub-Assistant Inspector of Schools, Ganjam and Vizzgapatam Girls' Range.

The following remarks were made by Hie Excillency in the Visitors' Book of the School — It has given me much plessure to pay a visit to this school and to find such good attendance and singing."

Onalow Institution, Ganjam Dt.—At this Institution, His Excellency was received by the Rev. O. E. Sell, Chaplain of Waltair and Mr. O. Ranation. In spector of Schools This is avery cold institution ratablished as long ago as 1854. Mr. A. Onalow, then Collected as long ago as 1854. Mr. A. Onalow, then Collected house which was then the Collector's residence and some landed property for the cetablishment of a school. The Lond Bishop of Madras and the Archdeacon of Madras were appointed tunsters. This district is the control of the Collected School in this district.

Government Orders — The Government approve generally the proposal of the Municipal Consultot Tellichety (1) to ratend and improve the Brennen College buildings and (2) to construct a hosted with warden's queriers at an approximate aggregate cost of Ea. 40,000 and will be prepared to make a grant not exceeding this amount from the Imperial non-recurring grant of 40 kluk for education.

Forther orders regarding the preparation of detailed plass and estimates and the execution of the work will issue in the Public Works Department, Therequirements of the Municipal Council in regard to the buildings should be communicated to that department through the Director of Public Instruc-

On completion the buildings will remain the priperty of Government, but will be lent to the Municipal Council for use in connection with the college.

The Government are pleased to sanction a grant not scoosing one half of the actual expenditure nor Rs 7925 towards the cost of certain additions to St. Joseph's European Convent Girls High School, Calicat.

The Government sanction the proposals of the Director of Public Instruction to distribute a sub-public solution of Public Instruction to distribute a sub-public shows in the list showmand by him for improving the scale of salaries of the general set if improving the scale of salaries of the general set is supplyed in the secondary schools and cellipse under their manutemance. The amount will be multiple of the secondary schools and cellipse under their manutemance. The amount will be multiple of the secondary schools and cellipse under their manutemance. The amount will be multiple of the schools and the local bacter species of the schools and the local bacter species.

The district boards and moneipal councils will aubmit to Government in the Local and Municipal Department at an early date proposals for the revision of the scale of a slarres of the slafe.

The Director's proposal to distribute Ra 9 100 for improving the scale of salaries of the pandus and other language teachers employed in the secondary schools and colleges under local boards and municipal councils will be separately considered.

The Government are pleased to sanction a great not exceeding one half of the actual expenditure nor Rs 3,200 towards the coat of construction of a drill hall in the Lindon Mission guils' high school, Veptry, Madras,

The downcasest approve the proposal of the Manacapal Council of Kurmod to acquare it a size Manacapal Council of Kurmod to acquare it a size and the second of the second

Further orders regarding the acquisition of the property will issue in the Public Works Department.

The Government are pleased to sanction a grant non exceeding one shift of the actual superdistres nor Bs 3 150 sowards the cost of even the cost of the cost of the cost of the building recently portioned for the cost of the building recently portioned for the cost of th

Under section 21 sub-section (i) of the Indian Universities Act, 1904, the Governor in Council is pleased to sanction the further schinding to the

University of Madres of the American College, Madura, in Group (n-A)—Physical Science—of the BA Degree courses

The Secondary School Leaving certificate issued by the Mysore State will be considered equivalent to the S-condary School Leaving certificate granted by this Government

The Government anction a grant of Re 17000 to the Municipal Connect of Palghat towards the cost of the installation of a gas and electricity plant in the Victoria College. This amount will be met from the Importal non recurring grant of 49 lakbs and will be paid in 1914-15 The work can be put in hand at once, but need not be paid for till that year.

The Government are pleased, as a special case, to anotion a quant of Be 10.09 being one-third of the estimated value (B., 20,118) of the ground floor of the Islaman's Secondary School at Vani-yambadi and another grant not resceeding one built of the actual expanditure on Re 18250 towards the cost of the first and second storeys proposed to be added thereto

The Government are pleased to sensition a gradual not resceeding one helf of the actual expenditure nor Re. 7.350 towards the cost of additions and improvements to the building occupied by the Town High School, Gontor.

The Government are pleased to sanction a grant not exceeding two-thirds of the actual expenditors nor Ra 22 566 towards the cost of construction of a building for the primary school of the Prisentation Convent Middle School, Vepory, Madris.

The Government sanction the proposal of the Director of Public Instruction to held the samina ton for teachers' certificates under the Code of Regulations for Faropean Schools in the month of December with effect from the year.

The Madras Teachers' Guild —A general meeting of the Madras Teachers' Guild was held to the Hundu High School, Tripleane, with the Honble Mr. V Strutsean Santragran the chair Mr. K. E.

Mr V Storenses Statements char Mr K. B.
Remeadhan delvered an interrating better on
What Alts the Teacher. Mr. O. K. Kreshat
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Frenger nets opened a discussion of the Hand bill
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is was considered to remove the subject Hintory of
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Mr. Gnacamuthu said that no person could be a licentized feacher without some knowledge of the history of education and as such it must be included in the curriculum. He also suggested that the opener might bring out a resolution on the subject. Several other members took part in the debate and they all spreed with the opener.

Mr. O. K. Krishna Iyengar then mored the following catolation:—"That this meeting of the Madras Teachers' Guidd regrets the omusion of the history of education from the L. T. course of the Madras University and requests that early steps be taken by the Sanate to reintroduce the same."

The resolution was carried unanimously after being duly seconded. With a vote of thanks to the Chairman the meeting terminated.

Nadar Secondary School, Poralyar - Owing to the sincere endeavours of M.R.R., S. K. Srinivantchariar Avl., BA. L.T., the Readmanter of the N. S. S. Poralyar, the School anniversary came, for the first time, to be grandly performed this year.

On Saturday, the 15th ultimo, 'sports' was held in the Meidhan at Tranquebar. All the citizens took an active part and there was a large number of spectators. Mr. Mening and a few other local

took an active part and there was a large number of speciators. Mr. Menting and a few other local officials acted as judges On Monday, the 17th ultimo, M.R.Ry, Rao Sabib,

8. N. V. Esjachar Arl, B.A., Deputy Collector, Hayararan, practiced over the interesting overcomy of the distribution of prise. He first unceiled the paintings of the late Mr. Theracauchtu Nader, the founder of the institution and of Mr. Neiler, the first manager of the school, and then gave away the prizes.

M. P. Daraisany Aliyer, Esq. Journalist and Secretary of the Tasjore Dureite Confectence, awe a very theiling speech which almed at impressing the grand maxim. However, the same and the processing of the same and the same and posted out the importance of poncinship, advised ponted out the importance of poncinship, advised the price-wiscarse to keep ny their reputation and arborated the other students to stire to wise such press. He forther sincersly wished that, with the proprisor of the institution, the arbord Maximum and the proprisor of the institution, the arbord may soon rise to college.

With the vote of thanks to the chair by the Manager, Mr. K. Samy Iyer, the proceedings came to a close.

Toen select scenes from Shakespeare's King John and from the Tamil Shejs Charifrom came to be successfully acted on the stace.

"Sree Gnanodsya Samsjam." Nellors.—The first anniversary of the "Sree Gnanodsya Samsjam," Nellya, was celebrated on the 2nd tosanar with Rao Baladur T. Bugharayya, Eng. 2.2, Ulmvict Cullotto, Nellora, in the chair.

The meeting began with the introductory remarks of the Chairman and the prayer in Telious verses specially composed for the occasion. The Scoretary of the Samajam then read the Annual Report for the year ending August 1913.

Mr. S. Bhuvaraha Rao Pantolu Garu. Ba. Lt., Sub-Assistant Inspector of Schools. Kavali, addressed the sudience on 'self-help.' The speech was characterised with eloquence and impressiveness.

The Chairmania his concluding sparch encouraged the members of the Association in an able speech. Then the Chairman, the Lecturer and the President of the Samajum were gerlanded in the midst of lond applause. Nose-gays of flowers were then distributed appong the gentlemen present.

The President Mr. K. Venkatramaiya Garo, B.a., I.T. gare a bearity volo of thanks to the Chairman. Thanks were also proposed to Mr. S. Bhowaraha Reo Pantulu, B.a., I.T., ibbelecuter, and Messre. M. Narssimschariar Arl. B.a., B.L. and A. Sattana Rama Ivengra Arl. B.a., I.T.

The meeting came to a close with the Singing of the 'Netional Anthem.'

The Kumbakonam College.—Under an invitation

issued by Mr Yetes, the Principal, the clite of the town assembled to witness the opening of the additional buildings just completed within the college premises, the new extension being intended to accommodate partly the science classes and laboratory and partly the English lecture rooms. Mr. B. B. Wood, I C.S., the Collector, who was to perform the opening coremony arrived with Mrs. Wood accompanying him. Mr. Yates spoke of thu Government grants for the works, appealed to the public to endow scholarships such as the late Mr. K. Rangenadha Row and asked Mr. Wood to formally open the new rooms filled up with ecientific spparatus and other equipment to begin the lessons with Mr. Yates then banded over the key to Mr. Wood. Mr. Wood rose amidst rheers and delivered a rather long speech beginning with his thanking Mr. Yetes for his kind invitation and offering in the course of his Address advice to the students of science for whom the new buildings had been intended. Mr. Wood congratulated Mr. Yates on his baving succeeded in getting grants from the Government which was no easy task stall, impressed on the students the need of clear thinking so essential for scientific studies and no less for success in life. He also complimented the College for the exceedingly good physical environments it possessed in its beautiful meadows and thus making the whole premises lock like the Cambridge College, and it had rightly carned that name in South India. He added that the College would continue to be the best in the Presidency

except the Presidency College at Madras. He then left for the rooms and opened them with the key

amidet loud cheers. With the usual distribution of

flowers and pun superi the gathering broke up.

S P G High School. Vepery -The seventy fifth anniversary and distribution of prizes to the pupils of St Paul's High School, S P G, Vepery Madras, took place in the Madras Museum Theatre, with H E Lord Pentland in the chair The function was witnessed by a very large gathering of ladies and gentlemen, both European and Indian, the bulk of those present being the parents and rela-tions of the pupils. There were interesting items in the programme to enliven the meet ng, and the is the programme to entired one meeting, and the proceedings began with the singler of the binn "St. George," and then prayer A young popul receited "De Torch of Lafa," The Rev H. J. Fdmonds, Principal, the read the report of the achool for the year 1912-13. His Excellency then distributed prizes consisting of books to the succeesful pupile and there were special prizes also distributed for carpentry work in the various forms of the school There was another special prize called "Mr Potts Prize" swarded to the pupil who had done most for the bonour of the school during the past year with special reference to work games, and general conduct. The Rev Canon Smith proposed a vote of thanks to H E the Governor for presiding at the meeting and for distributing the prize The proceedings terminated with the singing of the National Anthem and three cheers for H & Excelloney.

The Harris High School -A very interesting zathering took place in the grounds of the school at Peter's Road Royapattab The object was to celebrate the fifty seventh anniversally of the foundation of this school by Lord Harris, a former Governor of the Presidency, and to dis ribute the prizes awarded after the annual examinations. The chair was taken by Khan Bahadar M. Sufder. Husain, Khan Sabib Buhadur, now a rebred Deputy Collector, but formerly a student in the Harris School The proceedings commenced with drill exercises about 30 boys averaging possibly 12 years of age, taking part in it The E port was next read by the Rev M G Goldsmith the manager of the school The Chairman then distributed the prizes and gave the students sound words of advice Rev M G Goldsmith proposed a vote of thanks to the Chairman for stiending, and for the kind words he had expressed, as well as for the noble example be had displayed to the bonour of his old school The vote of thanks was passed with acclamation Three cheers were called for in his honour He was garlanded and conducted to his carriage, and the proceedings terminated

Education in Ongole—The third anniversity of the Tescher's Association in the Ongole Engrey was held in the Jagamatra Hell recordly under the presidency of Mr. M. Kanessan. Mo. Pantoliu 3 A., Inspector of Schools, 1950 reschert There were present at humen's activate present of the Control of C

The public meeting commenced at \$0? x After the unail prayer, the Secretary of the Ongle Tachers Association, read the Annual Report on its work of all Associations in the Ongole Bases Mr. K. Kamstrudhus Reo. Pantula Called Mr. K. Kamstrudhus Reo. Pantula Called Mr. K. H. Called Mr. K. K. Called Mr. K. K. Called Mr. K. Called Mr. K. Called Mr. Called

South India Teachers' Union, Madras—The General Servatary of the South India Teachers' Union writes that he addressed a letter on the 20th the Victory, requestor that no submit to His the Victory, requestor that no submit to His callency the prayer of the Union for the statuting of a Provident Fund and for old age pension for the Provident Fund and for old age pension for in the ray representation of the Provident of Education—" With reference to your letter, dated the 26th November 1913, addressed to the Private Secretary to His Excellency the Victroy. I am desired to any that a scheme for some provision for the old age of teachers not in pensionable service is under consideration by the Government of Judia."

Zenana High School, Hyderabad -The annual prize distribution of this institution took place recently. Mrs. Pinhry presided and gave away the prizes. A delightful programme was gone through Miss E. A. Evans, Lady Principal, read the School Report from which we learn that there has been a steady increase in the number of pupils and the strength in 122 sgainst 93 of last year. Two pupils appeared for the High School Leaving Certificate examination last April and one did very well. She secured a good sertificate and is continuing her studies privacely with a view to taking her degree in the Madras University. Two appeared for the Middle School Examination and both passed. A pupil of the School, Jeffri B gam, one who has been in school since her childhood and who took her H. S. L. certificate in 1911 has this year been anpointed Secretary to the School, a post which she fills very well II. H. the Nisim's Government have sanctioned Rs. 39,000 for enlarging the school building near Hussain Sakhar gurden.

Darbar Day Celebration — All the schools is the Presidency sere closed on the 12th instant in bosour of the Anniversaty of the Darbar Day and decreated with Union Jacks and other flags and some of them gaves treats to their children. Interpretation of them gaves treats to their children. Interpretation of the prises of the Children of the State of the St

Popil-Teachers' Association, Calicat—We have received the annual supers of the Association which is attached to the Gertrament Training School, Calicat. All the popil-teachers in the various grades of the Government Training School, Calicat, which is a straining school, Calicat, and the propriets are madered to the Association of the Carlotter of the School Calication and Award for the International Carlotter of the Carlotter o

CALCUTTA.

Bowbazar High School -The annual prize-distribution of the Bow Bazar High School came off recently at the school premises under the presidency of the Hop'ble Mr. Justice E. P. Chapman, M A. I.C S. The school building was tastefully decorated with green foliages and flogs There was a large attendauce of guardians, educationists and elites of Calcutta, The Headmaster B.bu Rejendea Nath Ghosh. B A. read the sunual report of the school. Then followed the recitations which were highly appreciated by the audience. Then the President distributed the "Chandra Medal" to Master S. Mukerjee who stood first among the successful students of this school in the aggregate and in Sanskrit, the K. L. Ghosh Medal to Master N. Mukerii who stood first in English among the successful students of this School, at the Matriculation examination of 1912 and 46 prists consisting of valuable and useful books to 46 meritorious boys of the school Then the President congratulated the school committee on their successful management and the teaching staff on the uniformly good University results.

Chakdaha R. L. Academy.—The prize-distri-bution ceremony of the Chakdaha Ram Lull Academy recently took place in the compound of the school. The school building were a gay appearance. Mr. S C. Mukberjee, LC S, the District Magistrate of Nadia, occupied the chair. There was a large attendance of ladies and gentlemen The Assistant Secretary read the annual report which showed how the school from a small beginning has developed into a first class English School and referred to the splendid gift of Rs 4,000 of Babu Ram Lall Singh, a wealthy resident of the locality. Babu Janaki Nath Bhattacharjee, M.A., Professor, Ripon College, addressed the meeting. He congratulated the Managing Committee on the success that has attended their labours and dwelt on the dignity of the schoolmaster. Miss B. M. Bose then addressed the meeting. Her speech was very highly appreciated and she was warmly received while she spoke. Habu Satish Kumar Banerjee, M.A., Headmaster, Mittra Institution, Calcutta and Babu Brojendra Nath Baxerjee then addressed the students, the latter referring to the splendid gift of Babu Ram Lall Singh. The Chairman in a nice little speech congratulated the Managing Committee on their solid work and wished continued good luck to the school.

The Indian Science Congress —A provisional programme Less now been drawn up for the Indian Science Congress which is to be held on January, 13, 16, and 17, 1914, in the cooms of the Asimio Society of Bengal, I. Park Street.

H. E. Lird Cormichael is the pairon, and the local Committee is as follows: -Dr. N. Ansodale, Mr. J. Copqio Brown, Dr. P. Beubl, La. Col. S. Barrard, F. R. S., Mr. O. O. Gaider, Dr. Y. A. K.

Christia, Dr E P Harrison Mr H H Hayden. Prof P S MacMahon, Hon Justice Sir Asl ptosh Mukher; Sir R N Mukhersee Ceptain C L Pasrt. Prof J L Simonsen, Hon Scoretary and Treasurer. Mr D Hooper Indian Museum

The provisional programme is as follows — Thursday January 15 10 30 a m to 1 p m Opening address followed by reading of papers on Chemistry, Physics and Geology 2 30 p m Reading of papers 4-30 p m Reception of delegates, 6 p m Illustrated Lecture on the Syrian Christians of Cochin

Friday January 16, 10 30 am to 1 pm Reading of papers on Zoology and Botany 2 30 pm Reading of papers, 4-30 p m Garden Party in Museum Compound

Saturday January 17 10 30 a. m to 1 p m Beading of papers on Edinography 9 30 p m Conversazione in Indian Museum Papers and Lectures have been promised by the

tollowing -Chemistry : Dr C Schulten Prof S monsen Prof. M N Banerji Mr P Neon Mr J H Barnes.

Mr B C Dats, and Prof MacMahon

Physics Prof V H Jackson Mr C V Raman, Dr J C Bose Geology Dr P Brubl Mr E Vre-denburg, Batany Dr P Brubl Mr P Mukherju Zoology Dr N Anasodale Mr T Southwell Capt. W.S Patton Lt. Cl J Manuers Smith, Mr F H, Gravely and Dr T H Bisbop

Ethnography: Mr J Coggin Brown and Mr L. K. Anantha Krishna Aiyar (Cochin) Subscription (five rupees) should be sent to the Hon Secretary,

Patna University Sits-His Excellency the Vicercy recently visited the site of the proposed Paina University The Vicercy was accompanied by H H the Lieutenant Governor and Mr Nathan On arrival at the site the Viceroy was met by Mr Monings, Government Architect, who had drawn up the place for the new buildings They were shown to His Excellency and the details explained by Mr. Nathan The site chosen is an admirable one and will allow plenty of room for the expansion of the College buildings in future years. The plans for the University itself and the various Colleges round are simple but dignified. The estimates are not yet

Patna College - The next pl ce he visited was the Patna College His Excellency was met by the Principal Dr Rossell and Dr Caldw II who conducted the Viceroy round the school The building was formerly a private house belonging to the East India Company and is thoroughly unsuited as a school which however it would soon cease to be as soon as the new Patna University is built ___

Engineering School Bihar-The next place he visited was the Bibar Engineering School which is under the charge of Mr Wallford Viceroy who seemed to be untiring, visited the class rooms and laboratories and was much inter exted in all he saw Both here and at the Patra College the students were drawn up and gave the Vicerov three cheers

ALLAHABAD

Christ Church College -Toe Social Gather ing of the College Institute took place recently The Right Reverend the Lord Bishop of Luck now, the first Principal of the College, was present throughout Several old atudents were present and awarded prices The Bishop, the Prinopal and some members of the steff contributed very liberally to the Prize Fund The Rev E. W Ormerod, M A , Professor of English and Philosophy. was respor sible for the English drams, and to his credit it may be said that the students rendered it as well as any amateur company may be expected to do The Rev M S Donglas, M A, Principal by he tudefatigeble lebour, thoughtfulness, thoroughness and wise organisation made the whole show an unqualified success

Kayastha Pathshala -The annual prize distribution of the Kayastha Pathshala took place recently under the presidentship of Mr Justice The Pathshala premises were tastefully Todball decorated and presented a gay appearance. The gathering consisted mainly of the turstees, staff and students of the college. Among those present were Mr Justice Tudball, Messre Mackenzie and Dan, Pandit Baldeo Ram Dave; Monshie Ishwar Saran, Govind Prasad, Guizari Lal, Harnandan Prasad, Munshi Harbaos Sahai, Professor Kishen Chand, B. Benode Bihari Lai, Mr. Chandu Lai, Mr. Pearelai Banerin, Mr. Simeon, Pandit Uma Shanker Bajpai, Lala Sita Ram, Lala Lachmi Narrana and Mr. Pearelai Lachmi Narrana and Mr. Pearelai Lachmi

Narayan and Mr Ram Din Vaiab. The proceedings commenced with the reading of the progress report of the Pathshala by the President of the matitution. The report dealt with the history, progress and present position The report having been read, of the institution Mr. Justice Tudball distributed prizes which consisted mainly of books. After the distribution of the prizes, the President, the Hon Mr. Justice Tudball, in a few well-chosen words enlogised the gift of the founder saying that gift for the apread of education was the highest form of charity and the founder, although a talker by profession, was a man of real action. The brief speech concluded with congratulations to prizewinners and appreciation of the progress of the

Pathebale.

C. A. V. High School-New Building opened.—The opening ceremony of the new building of the local City Anglo-Vernacular High School on Canning Road was performed by his Honour the Lieutenant-Governor.

His Honour said: it was a pleasure to him to join that ceremony, and the pleasure was enhanced by the fact that he received the address at the hands of his old friend Rai Sanwal Das Bahadur. His Honour congratulated the President and members of the Allababad Education Society on the success of their labours. They had rather a hard struggle in carrying the torch of learning in this city amid circumstances of great difficulty. His Honour fully appreciated the patriotism and generosity of the donors whose names were mentioned in the address and which greatly contributed to the success. His Honour also referred to the necessity of locating schools in healthy quarters and warmly appreciated private enterprize in the matter of the extension of secondary education.

MYSORE.

Prize-giving at Baldwin School.-The prize-distribution to the boys of the Baldwin High School took place in the Richards' Hall of that institution, which was quite filled with parents and friends. Mr. A. R. Cox. I.C.S. presided, and the prizes were handed over by Mrs. Robinson. wife of Bishop Robinson. The ceremony and of the Hall was decorated in a particularly brave way with great Union Jacks, while the table holding the awards was draped with the Stars of Stripes of the United States.

Proceedings were initiated by the Rev. J. B. Ballrick with prayer, after which an oratorical contest took place between two of the senior students, the prize being adjudged to Alfred Bean. Mr. Buttrick read the Principal's Report, and this was followed by a speech from Mr. Cox. It was rather out of the besten track of such nauslig contentional atterances. He spoke at considerable length on the practical side of student lifa. Thereafter Mrs. Robinson gare away . Yns books and medals, assisted by the Ber. A. B. Coates, the Principal, who made interesting comments now and sgain on the prowers of the recipiente.

St. John's Church Schools-There was a record attendance in the St. John's Church School Bloom, when the angual distribution of

prizes to the pupils attending the Day and Sunday Schools took place. Lady Flora Poors then presented a large cumber of prizes to the happy winners and when this item of the programme came to an end Mr. Hacking called upon all to show their appreciation of Lady Poore's goodness in coming there and giving away the prizes, by according ber three hearty cheers. Lady Flora was cheered to the echo and the singing of the National Anthem brought to close one of the brightest functions in St. John's School,

Maharani's College.-H. E. Lady Hardings accompanied by the Yuvaraja, Mr. Wood, Miss Osborne, Contain Tod and Cantain Benson visited the Maharani's College, Mysore. Her Excellency was met by the Dewan, the officiating Lady Superintendent and others, and was conducted to the lecture room where a short programme had been arranged for Her Excellency's benefit. Amongst the items were a violiu solo, a Sanskrit and Karpada recitation, some science experiments, and a scene from Shakespeare's "As You Like It" acted by three of the students.

Lidy Hardings then presented the prizes, after which a farewell song was sung followed by God Save the King.

TRAVANCORE,

Government Orders .- A sum of Rs. 3.000 has been granted by Government to supply H. II. the Maharajah's College with the requisite forniture, and Rs. 86,000 for the Elementary Schools for the same purpose.

The Educational Director has recommended to Covernment the payment of an allowance of Rs. 100 to Miss D. H. Watte, Principal of the Girla' College, Trivandram,

The Government have sanctioned Rs. 12,000 for getting down books for Il. H. the Maharajah's College Labrary.

A meeting of the Travancore Government Text-Book Committee was held on Saturday, the 18th instant, to consider and select Text-Books for use in the Elementary and Secondary Schools of the State for the ensuing year 1914.

COCHIN.

A Prize-distribution -The distribution of prizes to the successful students of the Convent School at Elthurath as well as the laying of the His Highests accompanied by a faw of the prominent goests them went to the place where the foundation stone was been the foundation stone was been to be foundation stone with a gold treated like Highest and go marks with a gold treated like Highest and go marks with a gold treated like Highest and the foundation stone well and troly like? The plan to be building was then inspected after which, at we building was then inspected after which, at we have the manager, the which are well as the stone of the stone when the promises His Highest and the lother promess His Highest and the lother promess His Highest and the lother promess when the promess has been a support to the promess the promises when the promess has been a support to the promess the promess that the promess has been a support to the promess the promess that the prom

CEYLON.

The North Ceylon Educational Association—The Annual General Meeting of the Assocation was held at the Jeffan Central College. The meeting was well attended in sputs of the inclement weather The Rev G J Trimmer, the President, occapied the chair

The Secretary (Mr. J. K. Chanmakam, E., L.) reported that sters a year of streames work (1911) the Association pared through a period of inactivity. But spread through a period of inactivity. But shows a substant of the present electrical policy as along the present electrical policy as along the present electrical policy and the present electrical policy and the present electrical policy and the Section Bottom Bottom (1914) and the Section mittee (special on 1914) and prepared a split bay on University College and prepared a split bay of University College and prepared a split bay of University College (Section 1914).

tion to be submitted to the Director of Education for approval by the Ceylon Board of Education

or approval of the Ceylon Board of Education
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W.M.P. Wilkee, a., c. 2: the Rev J H. Dickon,
M. H. Beammann, a. 4, Nr. R. H. Leanbrigggen,
M. C. C. Saummann, a. 1, Nr. W. Denn
warm, y. a., Mr. W. Denn
warm, y. a., Mr. W. M. Dickson, and Mr. C. Saummann, a., Mr. W. Denn
K. Chamoskam, B., L.T., Mr. W. D. Niles, B.,
Mr. D. Saummann, a., L.T., Mr. W. D. Niles, B.,
Mr. D. Saummann, a., L.T., Mr. W. D. Niles, B.,
Mr. D. Saummann, a., L.T., Mr. W. D. Niles, B.,
Mr. D. Saummann, a., L.T., Mr. W. D. Niles, B.,
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Mr. D. Saummann, a., L.T., Mr. W. D. Niles, B.,
Mr. D. Saummann, a., L.T., Mr. W. D. Niles, B.,
Mr. D. Saummann, a., A. A. Sappathy

Mr. H. Stapya Reo, s.a., and Mr. A. Sappashy. Mr. G. Shave Rag, s.a., i.r., presented the syllabor su School Managament prepared by the Soll Octuber, and also as outline scheme for a course of lectures and provided insuration to candidates for the Tuber Committee of the Rev. G. G. Soll-Committee consisted of the Rev. G. G. Blowest S. A., and Heart G. Shave Ray, s.a., i.r., J. V. Chellath, s.a., J. K. Channukem B.a., L.T., and H. Shay year. Hen S. at The same of the first W. M. P. Wilkes, s.a., L.O., was now added, and the Soll-Committee was requested to set a complete and detailed working acknowledges of the top-plet and detailed working acknowledges of the state of class for candidates for the said examination.

Mr. C. K. Swammathan, and then moved a resolution on the place of the Veraculers in Secondary Schools. The meeting was unastimously and emphatically of opnion that the meeting beautiful to the secondary school of the secon

The Rev J II Dackson utroduced the manural presented by the Verancelar Teacher's Association to II is Faceliner; the Governor and uncel that this Association do load its support to the memoral. It was resolved that the Gorren with the translated to consider the memoral with the translated to consider the memoral of the Rev J II Dollow Market to the Rev. G J. Tramers, and Messes, I. M. Rosenson Baand V Cauppillal, was appointed to consider the matter to detail and report to the Committee of the Association what further action, if any, should be taken.

The Rev. G. G. Browne, B.A., presented the draft of the memorial on the subject of the University College and higher education, prepared by the Sab-Committee appointed on 23rd October. This evoked great enthusiasm in its discussion and was finally accepted with slight modifications. The Association welcomes the Government's proposal to establish a Model College in Colombo but hopes that the institution will be modelled on Castern lines to suit the special needs of the Coylonese and that adequate facilities will be provided for the study of the Vernaculars and Oriental Classics. It deprecates any menopoly in higher education by the Government and concludes by asking the Government to allow students of other institutions satisfying conditions laid down by the Education Denartment to present themselves on cocal forms with University College students to all examinations and to be entitled to all certificates, diplomas, and scholarships to be awarded on the results of such examinations.

The meeting closed with a vote of thanks to the chair.

INDIA (GENERALL

Indian Students in England,-Mr. C. E. Mallet's annual report gives details of the increasing activities of the ladien etadente department in manifold ways. He estimates the number of stadents now in the United Kingdom at between 1,000 and 1,700. Of these 141 are under the guardiacatin of his department. One of the chief differings is to provide for the increased number of Engineering students faculities for practical work. He points out that many English students have to seek such facilities abroad, and says it is aufortanate that students desiring allicately to make railways, bridges and roads, leave India where opportunities exist, for England, where opportunities are more rarely found. It would be a great assistance, adds Mr. Mailet If Rails are and the Patlin Works Department in India notil affed Indian stadents such facilities which are so difficult to obtain been The expenses of the year, chargeable to Indian Herensea, amount to £3,973, which, Mr. Hallet safe is not a beary process pay if it creates in souding burk to ladie, as leaders of the year get generation, a body of well-ngarped, well educabed was with ment freedal sein Kugland and every tween to recall their principaces bern with freldede ted massers

SCHOOL AND COLLEGE SPORTING NEWS.

Inter-paraity Uricket.

Though the idea of an inter-varsity match was moded about 10 years ago, it was not till this year that the proposal was seriously considered. The auggestion emanated from Madras, as in former years, and Principal Covernton set about forming a strong and influential committee and succeeded very well. Justice Heston, the Vice-Chancellor, was elected President of the General Committee. and Colonel Street. President of the Selection Committee with the representative of the Elphinstone College as Hon. Secretary. The Selection Committee included representatives of the various Colleges who had submitted the names of likely candidates. It had also power to add to its number and Dr. H. D. Kanga, Mr. C. V. Mebia and other well-known cricketers were invited to join their ranks.

Madras Colleges v. Mordant Colleges.

A match between teams representing the local Madras Colleges and molusal Colleges took place on the Madras United Clob grounds. Play commenced at 11-45, and the local Colleges wunning the toes, put in the visitors to bat. The match ceded in an easy win for the local Colleges by four wickets and 11 runs on the first incings.

MADRAS UNIVERSITY D. BONDAY UNIVERSITY.

In the former, the University was left winners by

The latter which had been awaited with considerable interest came off on the M O C ground. Long before the commencement of the match, a large crowd was present at Chipank and great cacinements proxibed, as the secore stood at hunch, Medgas was certainly not in a promising position, the total of 8 for a start, being rather poor.

With only 64 runs in the first innings and 15 for 1 wicks in the accord, as against a total of 13 runs made by the yestern in their first innings, the teams resumed their second innings shortly ster 11 o'clock.

The dismissal of Vercataraman juda who was given cut L. R. W. to Marcons followed shortly after with the score analyzed. The diament of twents who for the second time was given cut L. R. W. to Pleast, with the total at 19 was a great shock for the Madrona. These two rather activationally disasters.

evrdeuily demoralised the team Just now, when all hopes of the homesters away themselves from culeat where being abandoned Yann and Strickland came to their resume and this tool listily Bancame fast and the uniters holding for the first time came fast and the uniters holding for the first time came fast and the uniters holding for the first time and the state of the contract of t

Besides Mr Green, there were present Mr Mark Hauter, Professor Anderson and Professor Kale of Bombay, Mr James Short and Prof Stratham

M U O THE BOXEST UNIVERSITY

A two days' match between the above leases we hold on the M U O ground. The homester the content of the content

INTER SCROOL SPORTS

Bangalore.

The annual Inter School Sports of the Durppess Schools of Bagastor were brought to a conclusion on the linkep Cotton School play ground There which were pay attendance to watch the contests, which were pay attendance to watch the contests, records for the races, none passed for, though the records for the races, none passed for, though the records for the races, none passed for though the races and Marsa A. H. Cox (Social act by were last year. Marsa A. H. Cox (God act they were last year. Marsa A. H. Cox (Data act and the passed of the passe

At the conclusion of the sports, Mrs A R Corpression the presentation, presented the presentation, Mr Cor made a lew rome; many constitution of the summars of the Trophess and the summars of th

Madura

The annual Gymnastics competition among the High Schools of the District, for the tropbus awarded to the senior and jointor students by the Madara Inter Schools of the grounds of the Schools of the Gymnastic School of the

tested The programme consisted of five events for the puniors and five for the seniors Mesers. Rest Clarke, A. D. Hickey and R. S. Robinson were the judges.

The Inter School Sports competition was held it the People P Arig Torond as 3 30 y x P seasons the People P Arig Torond as 3 30 y x P seasons Schopaths. American Mission, Medigra College and Soursahira High Schools were represented A large gathering of students and others was present to twinces the competition Mr. I O. King with the states, Mr. J. G. Burn, the referee, and Mesert Y Manchkum Plais. Capitan Harley, T. Amnitish, T. A

Mrs Harley, ruforf Captain T. W. Harley, T. V. S. Datrict. Medical and Sanitary Offices of Madern, Reve wary the prices to the winners of the several exits day, as also to the winner of the several exits day, as also to the winner of the several exits of the se

Malahar

The Melabar District Inter School Sports were held on the West Hill maidan in the presence of a large number of speciators

The institutions which took part in the different competitions were the Zamorus College, B G M College, Native High School and St Jaseph's European Boy's High School Calicut Victoria College, Paighat, Rajah's High School, Kollengode, Branna College and B G M. Parsi High School, Tillicherry,

and Municipal High School, Cananore. The events went off very successfully

M C A Association, Poolball League PACHAITAPPAS W WESLET

A very one sided game was witnessed in the return match between the above teams played on the SIAA ground, the Pacharyappa's completely outplaying their weak opponents and scoring the easiest of victories, by 6 goals to mil

LAW COLLEGE v MEDICAL SCHOOL

The return match between the above teams was played on the S I A A ground The Medical School appeared on their full atrength, while their opponents were handlespped by the absence of their good players. The Medical School won the match by 6 goals to nil

PRESIDENCY WESLEY COLLEGE

The Presidency College played their return match with the Wesley College on the Presidency ground.

The score sheet was blank during the interval. On the teams crossing over, the Presidency College improved, and the play ended in a win to the home toam by 3 goals to mil.

ESGINERRING D. TEACHERS' COLLEGE

The return match between the above Colleges, which was played on the Teachers' ground, was rather one sided, and the visitors had most of the

play, winning the match by 4 goals to 1. TEACHERS' COLLEGE, SAIDAPET D. THE ROTAFERAM

MEDICAL SCHOOL

The roturn match between the above teams was played at Saidapet, Play, though not particularly ask was none the less very interesting to watch, the teams being very evenly matched. The Teachers accred a surprising but none the less thoroughly deserved win by one goal to mil

MEDICAL COLLEGE B. THE ROTATURAN MEDICAL School, The above teams met in their return fixture on

the Medical College ground. Very great interest was contred in this match and consequently an unnaually large crowd turned out to witness it. The match ended in a win for the Medical College by 2 guals to mil

PACHAITAPPA'S C. ENGINEERING COLLEGE.

The return match between Pachairappe's College and the Engineering College; was played on the

Engineering ground. The Engineers won the match by two goals to nil.

MEDICAL D. TRACUERS' COLLEGE The match, which was posted on the Medical

ground was not played, as the Teachers' College did not turn out and the Medical College were declared winners.

PARRAITAFFA'S COLLEGE O. THE ROYAPURAM MEDICAL SCHOOL

The above teams, met in their return fixture on the S. L A. A. ground. With both sides at full strength, a fast and exciting game ensued. Play took a very interesting turn almost from the commencement, both goals being in danger alternately. The match ended in a draw, one all.

PRESIDENCE D. ENGINEERING.

One of the most interesting matches in connection with this tournament was played on the Presidency College ground between the above teams. The play throughout was fast and even so that when time interrened the match was left drawn, one goal all.

TEACHERS' COLLEGE, SAIDAPET D. THE WESLEY COLLEGE

The return match between the above teams took place in the usual course at Saidapet. The Teachers who won the first match by the narrow margin of one goal won this match by double that margin, but as a matter of fact, the Wesleyans put up a decidedly better fight to this game, baying had a very feir abare of attack without unfortunately scoring

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The Educational Review

The Allahabad

The Allahabad
annual University was held on the
15th of November The
15th of N

Vice Chancellor, delivered, as usual, the Convocation Address In the Madras University the Convocation Address is delivered by some Fellow selected by the Chancellor, as a complement, and of late years the Madras Convocation Addresses have been distinguished by the commonplaceness of the sentiments expressed The "well-established custom" at Allahabad requires the Vice-Chancellor every year "to present a short resume of the work done during the year, and to deal with some of the more important educational topics which interest the Fellows." This procedure may very well be copied by the Madrae University and then the Madras Convocation will become a living function and not be, as now, an empty ceremonial, in which hundreds of people are packed up in an atmosphere reeking hot and made to listen (s c. if the voice of the gentleman who delivers the address can be borne to their ears, which is very seldom) to sapient advice that young men should learn good manners, according to the European convention, though they have little chance of meeting Europeans in society, that they should learn to speak and write faultlessly, though this is a feat impossible to most of them, etc The Allahabad Address 18 very interesting because it tells us what the University has done during the year, what it wants to achieve in the future and what are the problems that exercise the ingenuity of the Fellows

Far and away, the most interesting ques-

tion discussed by Dr. Sandar Lal is the posttion of the "Vernacolars" in University
studies In using the term "Vernacolars"
we imitate certain members of the MadraSonate and mean by it not the languages
spoken by the people, but the clusted
dislocts used in books and the Sanskri larguage It would seem that the Albabad
University has to the followed the lead of
the Madras University and has arranged that
"English is the only subpect which is
compulsory for every candidate to take up

It has thus become possible for a student to take the degree of Bachelor of Arts without studying any more of Mathematics than what is prescribed for the Matroulaton Examination to take the degree of Bachelor of Arts without knowing any classical larguage. This has been settled as oft-mooded subject of animated debate in which the motion for the change now adopted was oft repelled by a small majority of votes."

Dr Sundar Lai discusses this result not in the hysterical spirit adopted by half-a-dozen Fellows of our University who are always trying to upset our University arrangements and stay the natural progress of our Untscreety studies and take it back to antiquated conditions, but impartially and like a responsible officer of the University He recognizes that it is an evil that "it has become possible for an Indian student to take his degree without knowing much more about his vernacular than what he might have picked up on his mother's lap, and except for the third paper in English in the Matriculation and the Intermediate Examinations be need not know the vernacular at all," But he does not want to remedy this evil as the Hon'ble Mr. T. V. Seshagiri Iyer and his followers in the Madras Sepate would do by

This is reprinted elsewhere in full in this issue.

lowering the efficacy of the Science degree and making the Madras degrees much inferior to those of any other University; for he says. "I am also aware there are considerable difficulties in finding a place for the vernaculars in our already crowded University Curricula and that room can only be made for them by taking out some other part of the course. But there seems to me, as at present advised, no serious difficulty in the way of arranging for a thorough grounding in the vernacular in our schools A thorough grounding in the current vernaculars (the italics are ours) is more apparently part of the school course, while a critical study of them, their growth and development from a historical and philological point of view, might more fittingly be left in the hands of the University."

We welcome the pronouncement of the Hon'bla Nawab Sved The President of the Indian National Con-Mohammed Saheh Bahadur. gress on Primary Education. this year's President of the Indian National Congress held at Karachi-so much in a line with what we have ad nauseam urged in these columns-that primary education "is the remedy of remedies that will help the masses at present steeped in ignorance, superstition and lethargy, to get out of the slough of despond, and will teach them self-help by placing within their reach, through the medium of the over-growing literature, the benefits that would scerne from adopting modern methods and principles in their hereditary and time-hallowed occupation of agriculture and other small industries: and will surely mould in them a frame of mind that would co-operate with the Government in any messure that may be taken for public

good, by removing the inclination to attribute wrong motives to the intentions of Government as regards their particular acts and measures." He advocated that the Government should adopt urgent measures to introduce compalsory education among the people and neged that the political fears entertained by Government as regards the adoption of the principle of compulsion were imaginary and that the people would welcome the imposition of a Primary education cess. We congratulate the President, National Congress, on his enthusiasm. He noted with pride what steps the Baroda and Mysore Governments and latterly Travancore had taken to push on compulsory Primary education and urged the Paramount Power to follow in their foot-steps. He also exhorted the Government to pay more attention than hitherto to technical education. The time would soon come, perhaps sooner than most people imagined, when the financial resources of the country would be soon strained to the utmost to cope with the problem of the poor and the submerged. The Government should therefore make a serious attempt to push on industrial and technical education by opening new schools and by subsidising at least some of the industries. We are very glad that such a clear exposition of our educational needs has been propounced from the presidential dais of this year's Congress and they will be urged and urged till all the demands are granted by the Government of India. The needs of higher education were not referred to in the speech, possibly from a feeling that the special grants recently given to the various provinces were enough guarantee that the Government was alive to them.

In a recent number we referred to the tendency to crowd the Cur-

The Correction of Secondary Schools
The Board of Education in England has issued a cir-

colar on this subject (Circular 826) One interesting remark in that circular runs as follows — "The relation between the second dary school and the technical school is materially affected by the increasing wide spread conviction that even the general education of boys and girls will gain in effectiveness if their work at school is to some extent brought to direct connection with their probable occupations in after life." Another remark that applies equally well to educational work here is this. "In the middle and higher forms time is often wasted by the inclusions in the self-latine of single."

that us reall; unessential to the neglect of what is of capital importance" Science teachers of our High Schools have, whenever they had a chance, strongly urged that the Physics and Chemistry syllabuses provided for the Secondary School Leaving Certificate schema are "impossible" ones Criticisms have been passed on the syllabus of English History and of its position in the scheme The Director of Public Instruction is to us what the Board of Education in England hence we ask how is it that when the Board of Education in England realizes that its chief work is to issue every now and then circulars intended to guide school teachers in their teaching and in their organization, the Director of Public Instruction, with us, is so out of touch with educational opinion that he cannot realize the difficulties which school teachers feel and does nothing remotely resembling what the Board of Education does to develop education

in England Since the Director of Pablic Instruction has become the monthpiece of the Government in the Legislative Council, his principal function has become to mollify the honourable members of that Council and as the masters of our Secondary Schools can never hope to enter that Conneil and wield a vote, this breach between the D P. I and what we concerve to be his main workbeing in touch with the work of Secondary Schools-is bound to widen more and more We regret that it should be so When the Secondary School Leaving Certificate Board was first organized, it was believed that the Board would supervise Secondary School education, would do what the Board of Education does in England, issue circulars expounding methods of teaching, principles of organi zation, and pointing out defects of school work as it actually obtains in schools and remedies therefor But very soon after the Board was created, it became apparent that it was merely another Board of Examiners, that it was but a Matriculation Framination Board write large The University Matriculation Board was bad enough in its day, but though that Board could not conceive secondary education but as a stepping stone to University education, it at least secured the best interests of the few that went on to the University. But now that the partially wholesome influence of the University on secondary education has been cut off, secondary education is not controlled and guided by any responsible person or persons who feel it their primary duty to foster it-So our curricule, our time-tables, and methods of teaching, our principles of discipline in fact, all the work of our Secondary Schools has to muddle along without expert help or guidance.

Returning to Circular 826, we notice that " modified specialization is the key-note;" specialization in Science and Mathematics particularly, as also specialization in art, economics and domestic courses is contemplated as suitable work for schools, of course with provision for the continuance of general education. Latterly we have had some carping criticism of specialization in schools; we wish to point out to such critics that, according to the Board of Education's circular, the main portion of the school work, viz., the study of science, theoretical and practical, should extend continuously over four years. "This will be required in all schools unless special reasons to the contrary can be given." " Boys who are working in preparation for an advanced course in classics may have a science course for three years (instead of four) between the ages of twelve and sixteen, if this course be supplemented by the inclusion of science among the subsidiary subjects taken at the specialising stage." In the case of schools where pupils normally enter pot later than the age of ten and stay till the age of eighteen or later, bifurcation may begin in the fourteenth, i.e. four years before

year, one leading to the University and the other modified by a vocational bias. All this proves that specialization in our High Schools does not begin one moment too soon. It is now recognized on all hands that handwork is an invaluable Handwork in the Secondary means of developing the School. brain, Working in cardboard, wood and metal is besides intimately

the school course ends, is, our III Form,

Where practically pupils enter all at the age

of twelve, alternative courses should be

established at the end of the first or second

in clay and design. The dexterity, moreover, developed in mapual work will also be serviceable in science classes which now are organized on the sound basis of experimental work done by pupils. Moreover in the manual work classes, the pupils are from the beginning, trained to make some finished object. This stimulates their inventiveness. Another not very remote but very beneficial effect of the handwork in school is that it may develop in some the desire to become craftsmen and thus to reduce "the over-valuation of braip-work in general throughout the whole community, so that we have the spectacle of a nation, in which two hundred and fifty men will apply for a vecant post as a clerk at a poor salary while large tracts of land are uncultivated for lack of capable workers." This being so, it will be worth while asking what the Madras Educational Department has done to encourage the introduction of handwork in our schools. We can answer this question by quoting an incident. There was once an Inspector of Schools who happened to see in one of the schools he was inspecting manual work enthusiastically taught. He immediately bought a working bench and a set of tools so that he might learn the work himself and thus qualify himself not only to inspect schools where handwork was taught but to be able to guide intelligently other schools where he could get such teaching provided. And the reward of such enthusiasm was that he was instantly transferred to a College to lectura on Chancer and Shakespeare !

To commemorate the celebration of his eightieth birth-day, a com-'Presentation of

mittee of the former students of the Right Hon'ble the Chemical Sir Henry Roscoe, headed Society. by Sir Edward Thorpe,

. 99

a bust of Sir Henry Roscos to

presented his bust to the Chemical Society. In a felicitous address presented to hin the great chemist was reminded that his "chemical grand children" now carried on the great work conducted by him in the discovery of chemical truth Though it is now twenty. seven years since he resigned the chair of chemistry at Owen's College, which has now become the University of Manchester, his influence as a teacher and a friend is still so strong as to induce his former pupils to exhibit their devotion to the master in this pleasant form The address was signed by about 140 of Sir Henry's former students, many of whom now occupy responsible positions both in academic work and in chemical industries and are to-day distributed in all parts of the United Kingdom, in Germany, Russia, Canada, the United States of America, Australia, and Japan But not in India, where men of the calibre of Roscoe's students are not likely to stray, but where Roscoe is known only as the author of a primer in chemistry, which was prescribed as a textbook for the Matriculation examination, but the examiners always broke their bounds and massacred the Innocenta

Witness after witness, before the Royal

The virtues of the Pablic School system proportion of officers in every department of public

service for men who have undergone training in the Linglish public schools and Universities We have never had the opportunity to see for conselves any school conducted exactly under the conditions of an English public school, but, judging them from the kind of men they send forth to serve the Leapire and from what we have need of them we have nothing but admiration for the Linglish pub

lio school system . so much so, that in our last number we spoke in approbation of Principal Griffiths' proposal to extend the system to elementary schools and advocated that educational salvation lay in going further and further from the system of judging by exami nations and approximating to that of judging pupils by the work done by them in schools, How is it, then, we ask, does not the Educational Department out here open one solitary school for Indian boys and work it as a model public school? We quite recognize the fact that the average Indian parent likes to have his sons at his house and to get him educated as a day scholar But the success of the Madras College Hostels 12 partially denuding mofussil colleges clearly indicates that there are parents enough in India who sufficiently recognize the value of boarding schools to support half a dozen such in each Presidency It is the urgent duty of Government to lead the way by opening model public schools-one at least for each great language-division of the Presidency Kumbakonam, Waltair, Bangalore and Palghat would be excellent places where the experiment can be tried personally know of many parents, esp cially those who occupy the higher places in the public services and who are transferred from place to place once in three years who would welcome such schools.

It has been hold, especially after Nanseu's well known drift on the forsibers.

We had north the work of the North Polar region, that there was no possibility of asknown land being discovered in the ocean morth of Sibetsa. This has been falsified by the discovery by the Russian tee breakers, Tannyr and Faigsts which has been, now for sometime, doing

hydrographical work in the sea north of East Siberia. The newly discovered land lice between 90° and 100° E. and on both sides of 80° N. This new land is an island like Nowaya Zemlya or it forms an archipelago like Franz Joseph's Lund, It is curious that so many Polar adventurers, Nordenskield, Nansen, Baron Toll, have rounded Cape Chelynskin 30 to 40 miles due south of the newly discovered land but never asspected its existence or that they were then going along a narrow strait and not the Arctin Ocean.

We have great pleasure in drawing the attention of our readers to A Munificent the gift of ten thousand Donation. rupees made by the Hon. Mr. P. Ramarayaningar, M.A., Member of the Imperial Legislative Council, to the University of Madras, for the encouragement of the scientific study of Telugu language and literature. The announcement was made on the occasion of H. E. the Viceroy's laying the foundation of the new University Library during his recent visit to this city. The scion of an ancient aristocratic house in Southern India, and himself a distinguished Telugu scholar, it was fitting that the first important donation for the encouragement of vernaculars, under the auspices of the Madras University should have been made by him. The era of expansion and improvement on which the Madras University has now embarked, has till now met with very little of practical sympathy from the public. The recent history of the University of Madras is not distinguished by any instances of princely generosity on the part of the rich land-owners and moneyed aristocracy of the Presidency, from whom help might naturally be expected for an institution striving to spread learning and

culture in the land. The Universities of Bombay and Calcutta have been enriched within the last two or three years by endowments amounting to several lakhs, and it is some consolation that a beginning has been made here with the gift of the Hon'ble Mr. Ramarayaningar. There has been quite an outery in the Presidency that the vernaculars have been neglected; that they must be made subjects of compulsory study in all the College classes and so on. But the public which seems so insistent on these demands has not demonstrated its earnestness, by any such instance of sacrifice as that which is now furnished by this donor.

The purpose which the Hon'ble Mr. Ramarayaningar has in view, in entrusting the University with the amount, is one which must be commended very highly, by all real lovers of culture. Nothing of great importance is gained by ensuring a superficial study of vernacular classics by all the under-graduates of our University, The mere interpretation of linguistic obscurities, and the ceaseless repetition of the fanciful and over-wrought passages found in the old commentators, cannot advance the cause of vernacular studies in any effective manner. The application of the principles of Western criticism to Oriental literature, and the study of Oriental languages in the light of the recent investigations of linguistic phenomena, have not yet been done in any appreciable degree for the vernaculars of Southern India. The benefaction of the Hon'ble Mr. Ramarayaningar will serve to start such work under the guidance of the University, at least in connection with one of the important languages. The donor is eminently fit by his scholarship in Telugu, to advise the University on the details of any scheme which it may think of originating in

connection with his gift and we have no doubt full advantage will be taken of his knowledge in the subject. We have only to hope in conclusion that the example set by this generous and public spinted Zemindar will be followed by the landed artsorracy of this part of Indias so as to enable our University to enter upon the new era of increased useful ness which it has set before itself, with the inspiration of strength and wide spread support.

The welcome news has been announced that

the Government of H E The Madras the Viceroy has gener Corporation ously given up its claim on the Corporation of Madras for the annual contribution of Rs. 50 000 paid by the body to Government If the decision relieves the Cor poration of some of its financial pressure it has also brought with it a new responsibility that of spending an annual sum of Rs 10000 on schemes fraught with the largest good to the rate payers of the city. We appreciate the zeal with which a Commissioner has precipitately suggested that it must be utilised to reduce the taxation in the Municipality But he must see that a responsible body like the Corporation cannot proceed to reduce taxation immediately on the receipt of such a benefit It cannot lay the flattering unction to its soul that it is fulfilling all the duties imposed upon the Corporation of a civilised country to such a degree that it can only think of reducing the taxes, when there is such a windfall. To those who have watch ed the working of the Madras Corporation, nothing is so apparent as the neglect of its duties to education It is a subject that seems to trouble the busy heads of the Com missioners at very rare intervals, and the amount that is spent by the Corporation on

the item is so little that it does not certainly deserve to congratulate itself on it. The

building of a few, new elementary schools has been spread over several years, and the work is being done with even more than the con templated slowness. The percentage of illi teracy is so appalling that a considerably larger number of elementary schools in various parts of the city are urgently needed to effect any educational progress. Again, the time has also come to think seriously of a scheme of free elementary education for the A few Municipalities in India have already made a beginning in the direction and there is no reason why the Corporation of Madras should not also think of it, unless it be that some of the Commissioners have yet to feel and be convinced of the benefits of education The best way of utilising the 50,000 Rs that the Corporation will find in its hands year after year is to spend it on the diffusion of elementary education in the city. The Commissioners may bear in mind, the wind fall is due to the generosity of a Viceroy, who has the interests of Indian education deep at his heart, and who will be handed down in the history of this country for his invaluable services in its cause. Such a decision will enable the Madras Corporation to fulfil in a more adequate manner one of the primary duties of a civilised local body, and also earn the gratitude of thousands of its future citizens led from darkness into light. We hope the Commissioners will realise the imperative nature of the demand and start a new era of educational expansion in the annals of a Corporation which has not done anything appreciable for it in the past.

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GOVERNMENT OF INDIA
DEPARTMENT OF EDUCATION.
Dalki, the 21st February 1913.
Resolution.

EDUCATIONAL POLICY OF THE GOVERN-MENT OF INDIA.

COMPREHENSIVE SYSTEMS OF EDUCATION.

His Most Gracions Imperial Majesty the King-Emperor, in replying to the address of the Calcutta University on the 6th January, 1912, asid:---

- "It, is my wish that there may be spread over the jund a niework of schools and colleges, from which will go forth loyal and manly and meetil citizens, able to hold their own in industries and agricultures and all the vectors in it fills and in the state of the sta
 - 2. The Government of India have decided, with the approval of the Secretary of State, to assist Local Governments, by means of large grants from Imperial revenues as funds become available, to attend comprehensive systems of education in the several provinces. Each province has its own educational system, which has grown up under local conditions, and become familiar to the people as a part of their general well being. In view of the diverse social conditions in India there cannot in practice be one set of regulations and one rate of progress for the whole of India. Even within provinces there is scope for greater variety in types of institutions than exists to-day. The tigrernment of India here no desire to centralise provincial systems or to attempt to introduce a superficial undurmire Suit less do they desire to depress level Greenments of interest and initiative in education. But it is important at intervals to review aducational policy in India as a while Prisriples, bearing on education in its wider appris and under modern ouditions and conceptions on orientalis and on the appoint needs of the commend community, were discussed at can be arrage to everythere testummi sends reergiaties nunerefficiale beill mithin ibn last ten years. These principles are the basis of socreted pulsy. How for they can at any time full local

application must be determined with reference to

THE NEED OF THER PERSPECTIVE.

3. The defects of educational evatems in India are well-known and need not be re-stated. They have been largely due to want of funds. Of late years there has been real progress in removing them In the last decade" the total expenditure from all sources on education has risen from 4 crores to nearly 72 crores. The progress has been expenselly great since Lord Caraon's government introduced large measures of educational reform. In the last four years the number of those under instruction has increased from about 54 to 64 milliors. Again, the formerly crushing weight of examinations has been appreciably lightened; a commencement has been useds in the reform of University and college organisation; and the grants from public funds to private institutions have almost doubled in the past nine years. These facts apeak for themselves. Nor must the great benefits, which education has conferred on India. be ignored or minimised. Criticism based on impariect analogies is often uniget. It is not just. for instance, to compare Indian systems still for the most part in their infancy with the matured statems of the modern western world, or to disrecard the influences of social organization and mentality. Again the common charge that the higher education of India has been built up on a slender foundation of popular education and that its teaching agency is inefficient, is one that might have been levelled against every country in Europe at some period of its history. India is now passing through stages taken by other countries in their time.

FORMATION OF CHARACTER THE MAIN OBJECTIVE.

4. In the lovefront of their policy the Government cil balls desire to place the formation of the character of the scholars and undergraduate under thirds. In the formation of character the indisence of home and the personality of the teacher play the larger part. Three is reason to hope-in play the larger part. Three is reason to hope-in spiritude and the scholars of the scholar

^{* 1.7. 1} wit to 1911,

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and that most important side of education, physical colluge and organised recreation.

DIRECT RELIGIOUS AND MORAL INSTRUCTION

The question of religious and moral instruction was discussed at a local conference held in Bombey and subsequently at the Imperial Conference held in Allahabad in February 1911 Grave differences of opinion emerged as to the possibility or advantage of introducing direct religious instruction into schools generally and apprehensions of difficulty in the working of any definite avatem were put forward Dopbia were also excressed as to the efficacy of direct moral instruction when divorced from religious sarctions. In the matter of moral teaching, however, the d Moulties are un doubtedly less than in the case of religious teaching The papers laid before the conference indicate that not a little moral instruction is already given in the ordinary test books and in other ways. The Covernment of Bombay are engaged upon the preparation of a book containing moral illustrations, which will be placed in the bands of teachers in order to assist them in imparting moral instruction Excellent materials for ethical teaching are available in the Mahabharata, the Ramayana portions of Haffs, Sadi, Manlana Rumi and other classics in Benskrit, Arabic Persian and Pall The Government of India while bound to maintain a position of complete neutrality in matters of religion observe that the most thoughtful minds in India lament the tendency of existing systems of education to develop the intellectual at the expense of the moral and rel gious faculties. In September 1911 they invited Local Governments other than the Bombay Government to assemble local committees in order to consider the whole question. Such committees are still at work in some provinces For the present the Government of India must be content to watch experiments and keep the matter prominently in view Enlightened opinion and accumulated experience will, it is hoped, provide a practical solution to what is unquestionable the

most important educational problem of the time Indirect Agencies, eg., Hostels, School Beildings,

TABILIDA, NYC.

8 There has been real progress of late years in the provision of boatels. In the lass decide the numbers bith of boatels and of resident under the provision of boatels. In the lass decide the number of the boatels and of resident under the provision of the provi

boys are held, that debating and literary societies are becoming more common. All these require bely which will in many cases best be organised in connection with the hostel system Much has also been done of late to improve school buildings ; but a large number of thoroughly unequiable, not to 427 mean, squaled and insantary buildings still exist in India These will be replaced, as funds permit. by modern buildings designed upon sanitary lines and with a view to avoid overcrowding and to facilitate the meintenance of discipline. The Goterament of lades hope that the time is not far distant when educational buildings will be distingaished as the most modern and commodious buildings in the locality, and acholars in India will have the advantages in this respect of acholers in the West. The influence for good of clean well arranged buildings with the concomitant domestic disripline can scarcely be exaggerated

Oretexp.

The claims of hygiene are paramount not only in the interests of the children themselves, though these are all important, but also se an object lesson to the rising generation. Hitherto want of funds and the apathy of the people have been responsible for the comparatively small attention paid to bygune. In some provinces a simple course of instruction in hygiene is prescribed, at some period of the school course, but the lessons ere often of too formal a type, are not connected with the life of the pupil, and fail to form his habits or to enlist his intellegence in after-life in the struggle against disease. In some areas there is a general inspection of school premises by a medical authority, but it is believed that little is done for the individual inspection of school children and that medical advice has not always been collisted in regard to the length of the school day the framing of curricula, and such matters. The Government of India commend to Local Governments a thorough enquey, by a small committee of experts, medical and educational, into school and college bygiene The scope of the enquiry will no doubt vary in different parts of India but the following seem to be important matters for inrestigation -

(1) The condition of school houses, bostels and other places where pupils reside, from the point of view of sanitation

view of samilation

(ii) The professional examination of building plane from the hygienic point of view

(iii) The introduction of a simple and more practical course of hygiene; whether it should be a compalisory subject in the various schemes of School-Leaving Certificates, and whether it should be recommended to Universities as part of their Matriculation examination

(iv) The inspection, where possible, of male scholers, with special reference to infectious diseases,

eyesight and malaria.
(v) The length of the school day, home-studies, and the effect upon health of the present system of

working for formal examinations,

(vi) The requirements in the way of recreation grounds, gardens, gymnasis, reading rooms, common-

rooms, etc. (vii) The inspecting and administrating agency required, the possibility of co operation with existing

OTHER CARDINAL PRINCIPLES OF POLICY.

organisations and the provision of funds-S. Other cardinal principles of policy may here be stated-

(1) The steady raising of the standard of existing institutions should not be postponed to increasing their number when the new institutions cannot be efficient without a better-trained and better-paid teaching staff.

(2) The scheme of primary and secondary education for the average scholar should steadily, as trained teachers become available, be diverted to more practical ends, e g., by means of manual training, gardening, out door observation, practical teaching of geography, school excursions, organised tours of instruction. etc.

(3) Provision should be made for higher studies and research in India, so that Indian students may have every facility for higher work without baving to go abroad.

RESEARCH.

9. The provision of facilities for research cannot be postponed. In almost every branch of science and the arts in philosophy, history, geography, language, literature, economics, sociology, medicine, public health, agriculture, biology, geology, botany and in all the sciences applied to industry, not to particularise more closely, there is a wide untrodden field awaiting research. Among the essentials are good libraries, laboratories and collections, ample leisure and freedom in study, systematic collaboration of professors and students, an atmosphere engendered by the simultaneous working of many minds on numerous but interdependent branches of research. Only when they know the methods of research by which the knowledge they are to impart is secured and tested are teachers fully equipped for their work in the more advanced stages of education.

PRIMARY EDUCATION, COMPULSORY AND FREE

EDUCATION NOT PRACTICABLE.

10. The propositions that illiteracy must be broken down and that Primary Education has, in the present circumstances of India, a predominant claim upon the public funds, represent accepted policy no longer open to discussion. For financial and administrative reasons of decisive weight the Government of India have refused to recognise the principle of compulsory education; but they desire the widest possible extension of primary education on a voluntary basis. As regards free elementary education the time has not yet arrived when it is practicable to dispense wholly with fees without injustice to the many villages, which are waiting for the provision of schools. The fees derived from those pupils who

can pay them are now devoted to the maintenance and expansion of Primary Education, and a total remission of fees would involve to a certain extent a more prolonged postponement of the provision of schools in villages without them. In some provinces elementary education is already free and in the majority of provinces liberal provision is already made for giving free elementary instruction to those boys whose parents cannot afford to pay fees. Local Governments have been requested to extend the application of the principle of free elementary education amongst the poorer and more backward sections of the popplation. Further than this it is not possible at present to go.

PRIMARY EDUCATION, GENERAL PRINCIPLES.

- 11. For guidance in the immediate future, with the necessary modifications due to local conditions. the Government of India desire to lay down the following principles in regard to Primary Educa-
- (i) Subject to the principle stated in paragraph 8(1) supra, there should be a large expansion of lower primary schools teaching the three R's with drawing, knowledge of the village map, nature study and physical exercises.
- (ii) Simultaneously opper primary schools should be established at suitable centres and lower primary schools should where necessary be developed into upper primary schools.
- (iii) Expansion should be secured by means of board schools, except where this is financially impossible, when sided schools under recognized management should be encouraged. In certain tracts liberal subsidies may advantageously be given to maktabs, putshalas and the like which are ready to undertake simple vernacular teaching of general knowledge. Reliance should not be placed upon "venture schools," unless by subjecting themselves to suitable management and to inspection they earn recognition.
- (iv) It is not practicable at present in most parts of India to draw any great distinction between the curricula of rural and of urban primary schools. But in the latter class of schools there is special scope for practical teaching of geography, school excursions, etc., and the nature study should vary with the environment, and some other form of simple knowledge of the locality might advantageously be substituted for the study of the village map. As competent teachers become available a greater differentiation in the courses will be possible.
- (v) Teachers should be drawn from the class of the boys whom they will teach; they should have passed the Middle Vernscular Examination, or been through a corresponding course, and should have undergone a year's training. Where they have passed through only the upper primary course and have not already had sufficient experience in a school, a two years' course of training is generally desirable. This training may in the first instance be given in small local institutions but preferably, as funds

permit, in larger and more efficient central normal schools In both kinds of institutions adequate practising schools are a necessary adjunct, and the a ze of the practising school will generally determine the size of the normal school As teachers left to themselves in villages are liable to deteriorate there are great advantages to periodical repetition and improvement courses for primary school teachers during the school vacations.

(vi) Trained teachers should receive not less than Ra. 12 per month (apecial rates being given in certain areas), they should be placed in a graded bervice and they should either be el gible for a pension or admitted to a provident fund

(vn) No teacher should be called on to instruct more than 50 pupils; preferably the number should be 30 or 40; and it is desirable to have a separate teacher for each class or standard

tviu) The continuation schools known as middle or secondary vernacular schools should be improved and multiplied

(ix) Schools should be housed in sanitary and commodions but inexpensive buildings

12. While laying down these general principles the Government of India recognise that in regard to Primary Education conditions vary greatly in different provinces In the old province of Bengal for instance, where there is already some sort of primary school for a little over every three square miles of the total area of the province, the multiplication of schools may very well not be so urgent a problem as an nucrease in the attendance and an improve ment in the qualifications of the teachers. In some parts of India at the present time no teacher in a primary sol ord gets less than 12 rupees a month In Burma all conds sons are different and monaction schools are an important feature of the organisation D fierent problems again present themselves where board schools and aided schools respectively are the basis of the system of Primary Education Nor must it be sopposed that the plcy laid down in these general terms for the ummediate future limits the sapirations of the Government of India or the Local Governments Indeed the Government of Idea toversment amore and coversment of Idea hope that the day is not far distant when teachers in primary schools will receive core detaily higher remuneration, when all teachers will be trained, and when it will be possible to introduce more modern and tlastic methods in primary schools.

VERNACULAR CONTINUATION SCHOOLS

13. Vernacular continuation schools are the only entrance to more advanced study which does not demand acquaintance with a fore go language, and it is in them that competent teachers for primary schools will be prepared Technical and industrial progress also is likely to create numerous openings for men with a good vernacular education. In certain provis ces owing to the popularity and cheap ness of English education these matitutions have declined. But in the whole of India in the last drovde the number of schools has increased from 2.185 to 2.668 and that of their scholars from over 177 000 to close on 257 000 The Government of Ind a believe that these schools will become much more popular and useful when they are placed on a sound footing . they also think that is would be an advantage if an advanced vernacular course could be provided at selected centres for students desirous of becoming teachers in these continuation schools

In some provinces apecial classes have been opened in secondary English schools for scholars who have been through the whole course at a vernacular continuation school in order to snable them to make up ground in English There is much expersence to the effect that acholars who have been through a complete vernacular course are exceptionally efficient mentally. The Government of India recommend arrangements on the above lines to all Local Governments and Administrations which have not already introduced them

PROPOSED EXPANSION

15 It is the desire and hope of the Government of India to see in the not distant future some 91 000 primery public achools added to the 100 000 which already exist for boys and to double the 42 millions of pupils who now receive instruction in them Lor purposes of present calculation a sum of Re 375 per annum may be taken as a rough approximation of the probable average cost of maintenance of a primary board school This figure provides for two teachers one on Rs 15 and one on Rs 12 per month and Rs 4 per month for the purchase of books and stanonery, petty repairs, prizes and for necessary contangencies. This is, however only an average figure for the whole of India lo India se a whole the average cost of a board or municipal school is at present Rs 315 per annum In Bombay the average cost of a primary school under any kind of management is now about Rs 437 but this figure includes the cost of the higher classes which in some other provinces are classed as middle or secondary vernacular classes

EDUCATION OF GIBLS.

16. The education of sucla remains to be organize In 1904 the Government of India remarked that peculiar difficulties were encountered in this branch of education owing to the social customs of the people, but that as a far greater proportional impulse is imparted to the educational and moral tone of the people by the education of women than by the education of men, liberal treatment had been accorded for girls in respect of scholarships and fees This policy has been continued Efforts have been also made not without suc ess. to bring education, through the agency of governesses within the reach of purds ladies to increase the number of ladies on the irspecting staff and to replace male by female teachers in Government and sided achools number of gris under instruction has risen from 444 470 in 1901 02 to 864, 363 in 1910-11 But the total number still remains insignificant in proportion

5

to the female population. The Government of India believe, however, that in certain areas there are indications of a swittly growing demand for a more extensive education of girls.

17. The immediate problem in the education of girls is one of social development. The existing customs and ifleas opposed to the education of girls and the education of girls of of girls

(a) The education of girls should be practical with reference to the position which they will fill in social life;

in access life;

(5) It should not seek to imitate the education anisable for boys nor should it be dominated by examinations;

(c) Special attention should be paid to bygiene and the surroundings of school life;

(d) The services of women should be more freely enlisted for instruction and inspection; and

(e) Continuity in inspection and control should be specially aimed at.

18. The difficulty of obtaining competent school-mistresses is felt acutely in many parts of the country. In this connection it has been suggested that there is a large opening for women of the domiciled community, who have a knowledge of the reruscular and who might be specially trained for the purpose.

SECONDARY ENGLISH EDUCATION.

19. The importance of eccondary English and in particular of High school decaton is flar-recking. Secondary education of one grade or another is the basis of all professional or industrial training in India. The inferior output of secondary schools increase colleges and technical ionitiations and hindown the development of higher education. As a large of the secondary English schools as the most urgent of educational problems. The improvement of secondary English schools as the most urgent of educational problems. The improvement of secondary English education has for some time or expired the attention of the Government of India and the Local Governments and it is hoped in the articles of the control of the decease of the control of the Government of India and the Local Governments and it is hoped in the state of the control of the Government of India and the Cocal Governments and it is hoped in the state of the control of the Government of India and the Cocal Governments and it is hoped in the state of the control of the Government of India and the Cocal Governments and it is hoped in the state of the Cocal Government of India and the Local Governments and it is hoped in the state of the Cocal Government of India and the Local Governments and it is hoped in the state of the Cocal Government of India and the Local Governments and it is hoped in the state of the Cocal Government of the Cocal Governme

30. In the last time years the number of secondary schools has increased from nearly £000 to over £00000 the number of scholars from £25,000 to expect £00000 the number of scholars from £25,000 to £00000 the number of scholars from £25,000 to £00000 the number of scholars from £25,000 the £

ever degree of withdrawal from the direct provision of education might be found advisable, there should be no relaxation of indirect but efficient control by the State. The admixture of private management and State control was again emphasised in the resolution of 1904 To this policy the Government of India adhere. It is dictated not by any belief in the inherent superiority of private over State management but by preference for an established system and, above all, by the necessity of concentrating the direct energies of the State and the bulk of its available resources upon the improvement and expansion of elementary education. The policy may be summarised as the encouragement of privately managed schools under anitable bodies, maintained in efficiency by Government inspection, recognition and control, and by the aid of Government funds.

21. Some idea of the extension of private enterprise may be gained by the reflection that, of 3.852 high and middle English schools, only 286 are Government institutions. These figures, however, cover many types of schools from the most efficient to the least officient. Admirable schools have been and are maintained by missionarits and other bodies. But the underlying idea of the grant system, the subvention of local organised effort, has not always been maintained. Schools of a money making type, ill-housed, ill-equipped, and run on the cheapest lines, have in certain cases gained reorgnition and eluded the control of inspection. Schools have sprung into existence in destructive competition with neighbouring institutions Physical health has been neglected and no provision has been made for snitable residential arrangements and playfields. Fee-rates have been lowered; competition and lazity in trapsfer have destroyed discipline: teachers have been employed on rates of pay insufficoent to attract men capable of instructing or controlling their papils. Above all, the grants in aid have from want of funds often been inadequate. No fewer than 360 high schools with 80,247 pupils are in receipt of no great at all, and are maintained at an average cost of less than balf that of a Government school, mainly by fee-collections. Especially do these conditions prevail in the area covered by the old provinces of Bengal and Eastern Bengal and Assam; a result due, no doubt, to the rapid extension of English education beyond the ability of the Local Governments to finance it. In Bengal and Eestern Bengal the number of high schools is greater than in the rest of British India put together, and the cost of their maintenance to public funds is proportionately less than a third of the cost. prevailing in other provinces. A special enquiry showed that out of some 4,700 teachers in privately managed high schools in these areas about 4,200 were in receipt of less than Re. 50 a month, some 3,300 of less then Rs. 30 a month while many teachers of English and classical languages drew salaries that would not attract men to superior domeetin service. The great variations in corditions in different parts of India point to the difficulty of making any but the most general statements about the results of private enterprise and the special measures that are needed to assist it to perform

measures that are needed to assist it to perfore efficiently its work in the educational system Secondary English Schools, General Principles,

- 22 Subject to the necessities of variation in deference to local conditions the policy of the Government of India in regard to secondary English schools is—
- (1) To improve the few existing Government schools by-
- (a) employing only graduates or trained teachers;
 (b) introducing a graded service for teachers of English with a minimum salary of Rs 40 per month and a maximum salary of Rs 400 per month.
- (c) providing proper bostel accommodation,
- (d) introducing a school course complete in itself with a staff sufficient to teach what may be called the modern sade with special uttention to the de velopment of an instorical and a geographical sense, (e) introducing manual training and improving
- science teaching.

 (2) To increase largely the grants in aid in order that sided institutions may keep pace with the improvements in Government schools on the above-mentioned hues, and to encourage the establishment
- of now aided institutions where necessary

 (3) To multiply and improve training colleges so
 trained teachers may be available for public
 and private institutions.
- (4) To found Government schools in such localities as may, on a survey of local conditions and with due regard to economy of educational effort and expense be proved to require them

GRANTS IN AID

22 The Greenment of Ludu also dours that be granten as rules should be made more status as as to enable sech school which is recognised, so considered to the sech school which is recognised and sech school which is recognised to the sech school which is recognised to case and the sech school with the sech school and sech sech school

Modern Side

24 The introduction of a school course complete in stealf and of a modern and practical character, freed from the domination of the Matericulation examination was recommended in the first instance by the Education Commission of 1882 In some by the Education Commission of 1882 In some

provinces and particularly in Madras real progress has been made towards the accomplishment of this reform The figures for 1901 02 and 1910 11 are —

Cabani Wi--

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1901-02

Madras and Coorg Bombay United Provinces Central Provinces	(candidates) 191 1162 52	(candidates, 7,583 3,781 1 704
	910 1911	
Madras and Coorg Bombay United Provinces	7,817* 1,360 946	762 3 765 2 205

In other provinces the school final examination has not yet been established except for special purposes. The total number of candidates in 1910 H for the school final examination or leaving certificate in all British provinces was 10 loft, that of candidates for Matriculture was 16.582.

Central Provinces ...

SECONDARY ENGLISH SCHOOL LEAVING CERTIFICATE

25. The principal objects of the school of fail are summarized are adaptability to the course of the summarized are adaptability to the course of the summarized or school leaving certificate has not been introduced the Government of India dearer that it should be noticed as soon as practicable. They suggest for the consensus the summarized or the summarized to the character of the tests by which certificates are granted at been of the school course. Before proceeding further, however they resiste and emphasises the test of the summarized the summarized that th

- "(1) The conduct of a school final or other school examination should be regarded as altogether out-side the functions of a University
- (2) It would be of great benefit to the Universities if the Guerrament would direct that the Matricula tion examination should not be accepted as a preliminary or foll test for any post in Gorenment service. In cases where the Matriculation examination qualifies for admission to a professional examination the school final examination should be substituted for it.
- (3) It would be advantageous if the school final examination could, in the case of those boys who propose to follow a University career, be made selficient test of fitness to enter the University. Failing the the best arrangement would appear to be that the Matricolation candidate should pass in certain subjects in the school final examination, and be examined by the University with regard to so?

^{*} School leaving certificate,

further requirements that may be deemed neces-

- 26. The value of external examination cannot be overlooked. It sets before the teacher a definite aim and it maintains a standard; but the definite aim often unduly overshadows instruction, and the standard is necessarily narrow and in view of the large numbers that have to be examined must confine itself to mere examination achievement, without regard to mental development or general growth of character On the other hand the drawbacks of external examinations are becoming more generally apparent, and attention was prominently drawn to them in the Report of the Consultative Committee on Examinations in Secondary Schools in England, They fail, especially in India, in that they eliminate the inspecting and teaching stoff as factors in the system, that they impose all responsibility upon a body acquainted but little (if at all) with the schools examined, that they rely upon written papers, which afford no searching test of intellect, no test at all of character or general ability, and that they encourage cram-
- 27. A combination of external and internal examinations is required. The Government of India consider that, in the case of a school recognised as qualified to present caudidates for a school leaving certificate, a record should be kept of the progress and conduct of each pupil in the highest classes of the school, and that the Inspector should enter his remarks upon these records at his visits and thus obtain some acquaintance with the career of each candidate during the two or three years before examination. These records together with the marks obtained by pupils at school tests, would be valuable and would supplement a test conducted partly through written papers on the more important subjects of instruction, but also orally and with regard to the pupil's past career. The oral examination would be con-ducted by the Inspector in consultation with members of the staff. A large increase in the superior inspecting staff would be required to work a system of this kind and safeguards would be necessary to protect teachers from undue influences: the Government of India are prepared to assist, with such grants as they may be able to afford, the introduction of any such system which may be locally practicable. The school leaving certificate systems of Madras and the United Provinces fulfil many of the requirements of the reform in view, but their precise characteristics may not be found altogother suitable in other areas. Some such system, bowever. as has been sketched above, adapted to local conditions, would, it is believed, be most beneficial and do more than anything else to foster a system under which scholers would be taught to thick for themselves instead of being made to memorize for examination purposes. Next to the improvement of the pay and prospects of teachers, which must accompany and even precede its introduction, this is perhaps the most important reform required in secondary English education,

TECHNICAL AND INDUSTRIAL EDUCATION.

28. No branch of education at present evokes greater public interest than technical and industrial instruction. Considerable progress has been made since 1904. Existing educational institutions have been overhauled and equipped for new courses. Scholarships tenable in Europe and America have been established. Thanks to the generosity of the Tata family, seconded by liberal financial aid from the Government of India and His Highness the Mahareja of Mysore, an Indian Institute of Science, designed upon a large scale, has been established at Bangalore; it was thrown open to pupils in 1911. The establishment of a Technological Institute at Campore for the chemistry of sugar manufacture and leather, for textiles and for soids and alkalies. has been sanctioned. Industrial schools have been onened in several provinces. Altogether the number of technical and industrial schools has risen since 1904 from 88 to 218, and the number of pupils from 5 072 to 10 535.

TECHNICAL SCHOLARSHIPS.

29. The system of technical suchdarships tenable bornd is still on trial, and a committee is ramming the whole question in England. It is not always tested, about 10 miles of the committee is ramming the steady abroad puts the pupils at a disadvantage in removing them from the environment of Indian tade conditions From the information savilable is appears that, of 5 cholars are a strong, 36 have trially emberged in India.

COORDINATION IN TECHNICAL EDUCATION.

33. The policy to be pursued in regard to technical and industrial education was discussed at the Allahabd Conference. The Government of India sceept the conclusions of that Conference that progress should continue along the lines generally followed hitherto. viz., that—

- (1) the Indian Institute of Science, which provides for research, the application of new processes and the production of throughly trained managers, abould be diveloped, as opportunity offers, and become eventually a complete faculty of pure and applied accience;
- (2) the larger provincial institutions, which attracts students from different parts of India, and afford instruction in practical methods of management and expertision, aboud in the first instance specialise along lines converging on local industries—a plan along lines converging on local industries—a plan concern, and the province of the province
- (3) the leaser industrial schools, minor wearing institutions, such of the schools of art as have an industrial bent, the artisan classes in Bengal, and trade schools generally, should be permanently

directed toward such industries as exist in the localities where the mentions are situated

TECHNICAL EDUCATION ON COMMERCIAL LINES.

The question has arisen as to how far educational institutions should develop on commercial lines It has been decided that while educational institutions should in no case trade on commercial lines in certain cases instruct on in industrial sel cois may be supplemented by practical training to work shots where the application of new processes needs to be demonstrated In certain cases also, it will be necessary to purchase and maintain experimental plant for demonstrating the advantages of new machinery or new processes, and for ascertaining the data of production

INDUSTRIAL OPENINGS FOR INDIANA

32 Quite recently Lucutenant Colonel E H d-HV Atkinson R E Priocipal of the Thomason College Boorkee, and Mr T S Dawson Principal of the Victoria Jubiles Technical Institute Bombsy, were deputed to enquire how technical institutions can be brought into closer touch and more practical relations with the employers of labour in India. Their report conts as many suggestions which are under consideration and emphasises the necessity of studying the demand for technically-trained menof attracting Indian capital to industrial enterprise and of supplementing tuition at college by a period of apprenticeship It also indicates that while the field of employment or occupation in the highest grades is at present limited, the ontlook for Indians is generally hopeful, provided the necessity for preliminary practical training is fully real sed

SCHOOLS OF ART

33 There are four Government schools of arts in India with some 1 300 papils, of which two are meinly industrial schools or echools of design Interesting developments are the rise at the Calcutta institution of a new school of Indian painting, which combines Indian treatment of subjects with western technique and the foundation of an arch ; frequent branch in the institution at Bombay But much remains to be done in connection with the nuce remains to nedone in connection with the indigenous art industries. This matter requires careful expire consideration. The Government of India will address. Lical Governments on the subject and for the present content themselves with advocating the importance and urgency of a reserv ing for and in India se entificially arranged collegtions of the products of its ancient and modern arts and crafts. The understanding sud appreciation of eastern art-work in Furope and America is dratoing good spreamens in increasing volume into

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St. The relation of museums to the educational systems of India was discussed at the Conference held at S mis in July 1911 Much valuable work has been done by the zoological and geological

sections of the Indian Museum at Calcutta, which are now equipped on modern lines. The archae-logical section of the same museum has recently been re-regamaed under the direction of Mr Marshall Director General of Archmology In provinces outside Bengal also there has been good progress in the right direction, but in the case of most local museums there is need of better equipment and a stronger staff Ope of the most presst needs in Irdia is an ethnographic museum under scientific management designed to illustrate Indian civil sation in its varied phases. Otherwise students in the future will be compelled to visit the museums of Paris Berlin, Murich and other | laces in order to sindy subj cte which al onld clearly be studied beat on Indian soil I'le Government of India will consult expert opinion on the subject, as at present advised they are inclined to favour the formation of a museum of Indian arts and etl pography at Delhi Their accepted policy, though some overlapping is nevitable is to develop local museums with special regard to local interest and to concentrate on matters of general interest in Imperial museums How to make museums more perful educationally and secure greater co operation between mureum authorities and educational authorities is a matter on which they have addressed Local Governments

AGRICULTURAL EDUCATION 35. The present scheme of agricultural education originated under Lord Curzon's government and is, in fact only seven years old Previous to the year 1905, there was no central analitution for research or teaching and such education as was then imparted in agriculture, was represented by two colleges and three schools in a more or less decadent condition Very few Indiana then had any knowledge of science in its application to egriculture and still fewer were capable of imparting such knowledge to others In the year 1905 a comprehensive scheme was evolved under which arrangements were made both for the practical development of agriculture by Govern-ment assistance and also for teaching and research in sgriculture and subjects connected with it. A central institution for research and higher education was established at Poss. The existing schools and colleges were reconstituted, improved and added to-Farms for experiments and demonstration were started, and as time went on a change was effected in regard to agricultural education in its earlier As now constituted the scieme of agricultural education has three main features eis. (a) the provision of first class opportunities for the b gher forms of teaching and research, (b) collegiate education and (c, the improvement of secondary and primary education

36. The institute at Pues, maintained at a cost of four lakes a year, has 37 Europeans and Indians on its staff, engaged partly in research, partly in postgraduate education and the instruction, through short courses, of students or agriculturists in subjects which are not regularly treated in provincial institutions. There are now an provincial institutions, containing over 300 students and costing commally between five and six lakes of rupers. Fractical classes for agriculturists have also been established at various contres in several provinces. In the ordinary elementary schools, formal agriculture is not taught; but in some provinces a markedly agricultural colour is given to the general schome of Education.

VETERINARY EDUCATION.

37. Veterinary research is carried on at the Bacteriological Laboratory at Makiesar. The sobeme of veterinary colleges are been thoroughly reorganized since 1904. There are now four such institutions, with 511 sudents, as well as a school at Hangoon. These institutions meet fairly well the growing demand for trained mee.

FORESTRY EDUCATION.

38. The College at Debra Don has recently been improved; and a research institution has been established in connection with it. Indians can here obtain an education in forestry which approximates to that ordinaryl obtainable in Europe.

MEDICAL EDUCATION.

39. Instruction in the western system of medicine is imparted in five recognised colleges and fifteen recognised schools in British India. These now annually produce between six and seven hundred qualified medical practitioners. A Medical Registration Act has recently been passed for the Presidency of Bombay, under which passed students of such schools are entitled to become registered; and a similar Act is now under consideration in the Presidency of Bengal. In Calcutta there are four self-constituted medical schools, the diplomas of which are not recognised by the Government of India. Among recent developments may be mentioned the establishment of an X-ray institute at Debra Dup, and the formation of post-graduate classes in connexion with the Central Research Institute at Kasanli. These latter include training in bacteriology and technique and preparation for special research; classes of practical instruction in malarial technique are also held twice a year at Amritsar under the officer in charge of the malarial bureau.

40. Other projects are coggeting the attention of the Uorerment of India, including the institution of a post-graduate course of tropical medicine. The control of the post-graduate course of tropical medicine. The course of the course of

logy with a view to improve the teaching of that anbject at the Madras Medical College. Other matters which are likely to come to the front at no distant date are the improvement of the Medical Collega at Latore and its separation from the achool, the improvement of the Dacca Medical School and the provision of facilities for medical training in the

Central Provinces The subject of medical education is one in which the Government of India are deeply interested. It is also one that may be expected to appeal with special force to private generosity. A problem of particular importance is the inducement of ladies of the better classes to take employment in the medical profession and thus minister to the needs of the women, whom the purds system still deters from seeking timely medical assistance. One of the hin-drances kitherto has been that Indian ladies are able to obtain instruction only in men's colleges or in mixed classes. With a view to remedeing this defect and commemorating the visit of the Queen-Empress to Delhi, certain of the Princes and wealthy landowners in India have now come forward with generous subscriptions in response to an appeal by Her Excellency Lady Hardinge, who has decided to merge in this project her scheme for a school for training Indian nurses and midwives. The Government of India are considering proposals to found a women's medical college and nurses' training school at Delhi with the bein of a subvention from Government Proposals are also under consideration for assisting the National Association for supplying femals medical aid to the women of India (the Counters of Dufferin's Fund) to improve the position of their staff.

LEGAL EDUCATION.

42. There has been a marked development of legal education in the last decade. First it has been concentrated. In 1901 there were 35 institutions. colleges, classes and schoole, containing 2,800 stndents. At the present time there are 27 institu-tions with a slightly larger number of students. The Madras and Bombay presidencies, Burma and the Central Provinces each possess a single institution; and in Bengal the instruction for the degree of bachelor of law has been restricted to certain colleges, although other institutions are still recognised for the pleadership examination. A law cognises for the preservant examination. A new college has been established on a liberal scale under the University of Calcutta This concentration has resulted in greater deficiency and greater exampaditures. In 1800, the cost to Government was a little over Rs. 7,000 and the total cost was 12 lakhs. At present the cost to Government is over Re. 45,000 and the total cost over Rs. 2.83,000. Secondly the courses have been remodelled and in some cases lengthened. The Covernment of Lodia will be glad to see an extension of the policy of concentration and improvement. They also desire to see suitable arrangements made for the residence and guidance of law students.

COMMERCIAL EDUCATION

43 There has recently been a considerable expaperon in commercial education. Nine years ago there were ten colleges with less than 600 students. and Government spent less than Rs 4000 upon these institutions At the present time there are 26 institutions three of which are under the management of Government the corolment is now over 1 500 and the expenditure from provincial funds is over Re 22000 The standard attained in the majority of these institutions is not however. high, and the instruction given in them prepares for clerical daties in Government and business offices rather than for the conduct of business itself A project for a commercial college of a more advanced type in Bombay has been sanctioned and the Government of India are considering the question of making arrangements for organised study of the economic and allied sociological prob lome in India.

UNIVERSITY EDUCATION

44 Good work which the Government of India desire to acknowledge bas been done under conditions of difficulty by the Indian Universities and by common consent the Universities' Act of 1904 has had beneficial results, but the condition of University education is still far from satisfactory, in regard to residential arrangements, control, the courses of study and the system of examination The Government of India have accordingly sgain reviewed the whole question of University educalion.

APPILIATING AND TEACHING UNIVERSITIES

45 It is important to distinguish clearly on the one hand the federal University, in the strict sonse, in which several colleges of approximately squal standing separated by no excessive distance or marked local individuality are grouped together as a University-and on the other hand the affiliating University of the Indian type, which in its inception was merely an examining body, and, although was merely an examining body, and, announced limited as regards the area of its operations by the Act of 1904 has not been able to inest upon an identity of standard in the various institutions conjuned to it. The former of these types has in the past enjoyed some popularity in the United Kingdom, but after experience it has been largely abandoned there; and the constituent colleges which were grouped together have for the most part become separate teaching Universities, without power of combination with other institutions at a distance At present there are only 5 Indian Universities for 185 arts and professional colleges Officeration for 100 arts and protessional colleges in British India besides serveral institutions in Native States. The day is probably far distant when India will be able to disposes altogether with the affiliating University But it is recessary to restrict the area over which the affiliating University and the second of sities have control by securing in the first instance a separate University for each of the leading provinces in India and secondly to create new local

teaching and residential Universities within each of the provinces in harmony with the best modern opinion as to the right road to educational efficiency. The Government of India have decided to found a teaching and residential University at Dacca and they are prepared to sanction under certain conditions the establishment of similar Universities at Aligarh and Bruares and elsewhere as occasion may demand They also contemplate the establishment of Universities at Rangoon, Patna and Nagpur. It may be possible hereafter to sanction the conversion into local teaching Universities, with power to confer degrees upon their own students, of those colleges which have shown the capacity to attract students from a distance and have attained the requisite standard of efficiency Only by experiment will it be found out what type or types of Universities are best soited to the different parts of India

HIGHER SPIDTER

- 46 Simultaneously the Government of India desire to see teaching faculties developed at the seats of the existing Universities and corporate life encouraged, in order to promote higher study and create an atmosphere from which students will imbibe good social, moral and intellectual influences They have already given grants and hope to give further grants hereafter to these ends-They trust that each University will soon build up a worthy University library, suitably housed and that higher studies in India will soon sojoy all the external conveniences of such work in the west.
- 47 In order to free the Universities for higher work and more efficient control of colleges, the Government of India are disposed to think it desirable (in provinces where this is not already the case) to place the preliminary recognition of schools for purposes of presenting candidates for matricu-lation in the hands of the Local Governments and in case of Native States of the durbars concerned while leaving to the Universities the power of a lection from schools so recognised. The University has no machinery for carrying out this work and in most provinces already relies entirely on the departments of public instruction, which alone have the agency competent to inspect schools. As teaching and residential Universities are developed the problem will become even more complex than Universities Act will be separately considered.
- 48 The Government of India hope that by these developments a great impetus will be given to higher studies throughout India and that Indian students of the future will be better equipped for the battle of life than the students of the present generation

CRIEFS' COLLEGES

49 The chiefs' colleges advance in popularity. In developing character and impering ideas of corporate life they are serving well the purpose for which they were founded. They are also attaining steadily increasing intellectual efficiency but the Committee of the Mayo College, Ajmers, have decided that it is necessary to inneress the European telf. The nest diploma course has on a thorress the thorough the course has on thorressent to foot of found a separate college for the students taking this course Such a college may in the future become the nucleus of a university for those who now attend the chiefs' colleges.

60. The grave disadrantages of anoding their children to England to be deducted exact protection being influences at the most impressionable times of the are being earlied by home protected unofficially from more than one question in connection with a proposal to establish at India a thoroughly efficient school staffed entirely by Encopsans and conducted on the most monthly the Encopsans and conducted on the most more than the Encopsans and the England of the Engl

TRAINING OF TRACHERS.

- 51. Few reforms are more urgently needed than the extension and improvement of the training of teachers, for both primary and secondary schools in all subjects including, in the case of the latter schools, science and oriental studies. The object must steadily be kept in view that eventually under modern avatems of education no teacher should be allowed to teach without a certificate that he is qualified to do so. There are at present 15 colleges and other institutions for the instruction of those who will teach through the medium of English; these contain nearly 1,400 students under training. Thors are \$50 achools or classes for the training of vernscular (mainly primary) teachers; and their atudents number over 11,000. The courses vary in length from one to two years. The number of teachers turned out from these institutions does not meet the existing demand and is altogether inadequate in view of the prospects of a rapid expansion of education in the near future. The Government of Iodia desire Local Governments to examine their schemes for training teachers of all grades and to cularge them so as to provide for the great expansion which may be expected, especially in primary education.
 - 12. As regards training colleges for escondary achools some superscook has been gained. But its Government of India are conscious that the subject one of which is free intereduce of rideas beard on the aucouse or failure of experiment is dearnable. The bests are for a practicing school and the relations between it and the one colleges the number of the control of the college for which the practical state of the colleges of which the practical being its observate as a model action without the college for the college for the college for the college for which the practical state is a model and the college for the c

treatment of educational history; the extent to which it is desirable and practicable to include courses in subject-matter in the scheme of training. especially courses in new subjects such as manual training and experimental acience; the points in which a course of training for graduates should differ from one for non-graduates; the degree to which the hody awarding a diploma in teaching should base its award on the college records of the student's work-these and other unsolved questions indicate that the instructors in training colleges in different parts of India should keep in touch with each other and constantly scrutinize the most modern developments in the west. Visits made by selected members of the staff of one college to other institutions and the pursuit of furlough studies would seem especially likely to lead to useful results in this branch of education.

PAY AND PROSPECTS OF THE SERVICES.

53. The Government of India have for some time had under consideration the improvement of the pay and prospects of the educational services. Indian. Provincial and Subordinate. They had drawn up proposals in regard to the first two services and approved some schemes forwarded by Local Governments in regard to the third, when it was decided to appoint a Boyal Commission on the Public Services of India. The Government of India recognise that improvement in the position of all the educational services is required, so as to attract first class men in increasing numbers, and while leaving questions of re-organisation for the consi. deration of the Commission are considering minor proposals for the improvement of the position of these services. They attach the greatest importance to the provision for the old age of teachers, either by pension or provident fund. Teachers in Govern ment institutions and, in some areas, teachers in schools managed by local bodies are eligible for these privileges. But it is necessary to extend the profision in the cases of board and municipal servants and still more in the cases of teachers of privately. managed achools, for the great majority of whom no such system exists. It is not possible to have a healthy moral atmosphere in any schools, primary or secondary, or at any college when the teacher' is discontented and anxious about the future. The Governor-General in Council desires that due provision for teachers in their old age should be made with the least possible delay. Local Governments have already been addressed upon this subiech

EDUCATION OF THE DOMICILED CONNUNITY.

54. The defective state of the releasion of the domiciale community has long been remarked. Many suggestions have from the state been made for its improvement. An including committee, presided over by Sir Robert Laiding, and committee, presided over by Sir Robert Laiding, as now collecting found for the achools of all demonstrations extorps Roman Catholius schools. As in the case of excellent Togitude detaction and for similar

reasons the policy has been as is, to rely on private enterprise guided by inspection and saided by grant fan public founds. The Government of India have been a public found for the found of the public desired and to other distincts the whole questions and to other definitions of products of special suggestions of reflect they assembled an influential conference at Somia last Joly

- 55 The recommendations of the conference were numerous and far reaching The Government of India are prepared to accept at once the view that the most urgent needs are the education of those children who do not at present attend school and the improvement of the pay and prospects of teachers. They are also disposed to regard favourably the proposal to erect a training college at Bangalore with arts and science classes for graduate courses attached to it They recognise that grants in aid must be given in future on a more liberal scale and under a more elastic system. They will recommend to Local Governments the grant of a greater num-ber of scholarships to study abroad. The proposals to reclassify the schools to introduce leaving certificates, to include in courses of instruction general bygiene and physiology, special instruction in temperance and the effects of alcohol on the human body, and the several other detailed proposals of the conference will be carefully considered in the light of the opinions of Local Governments when they have been received
- 56 The saggestion was put forward and largely supported at the conference that European education appears to the conference that European education is controlled under the Government of Lot bond he controlled under the Controlled Conference of the Conference of Conference of the Conference of the

EDUCATION OF MUHAMMADANS

57 The figures and general remarks contained in the fiscolous are general an applicable to all races and religious in Idea, but the applicable to the Makasimekan and the manner in which they are the Makasimekan and the manner in which they are the manner of the second of the manner of the manner

nearly 80 per cent But, while in primary institu tions the number of Muhammadana has actually raised the proportion at school of all grades among the children of that community to a figure slightly in excess of the average proportion for children of all races and creeds in India, in the matter of highor education their numbers remain well below that proportion notwithstanding the large relative in crease. The facilities offered to Mubammadans vary in d ffernt provinces but generally take the form of special institutions such as madramas, hostels, scholarships and special Inspectors The introduction of simple vermentar courses into makiabs has gone far to spread elementary educa tion amount Muhammadans in certain parts of India. The whole question of Mohammadan education, which was specially treated by the Commission of 1882, is receiving the attention of the Government of India.

ORIENTAL STEDIES

58 The Government of India attach great am portance to the cultivation and improvement of oriental studies. There is increasing interest throughout India in her ancient civilisation, and it is necessary to investigate that citilisation with the help of the medium of western methods of research and in relation to modern ideas. A conference of distinguished orientalists held at Simla in July 1911 recommended the establishment of a central research institute on lines somewhat similar to those of L Ecole Francaise d Extrême Orient at Hanor The question was discussed whether research could efficiently be carried on at the existing Universities, and the opinion predominated that it would be difficult to create the appropriate atmosphere of oriental study in those Universities as at present constituted that it was desirable to have in one matitution scholars working on different branches of the kindred subjects which comprise orientalia and that for reasons of economy it was preferable to start with one institute well equipped and possessing a first class library The Government of India are inclined to adopt this view and to agree with the conference that the central institute should not be usolated that it should be open to students from all parts of India and that it should as far as possible combine its activities with those of the Universities of India and different seats of learning. The object of the institute as apart from research is to provide Indians bigbly trained in original work who will enable schools of Indian history and archeolo-Ry to be founded hereafter, prepare satalogues assumes of manuscripts, develop museums and build up research in Universities and colleges of the different provinces Another object 18 to attract in the course of time Pandits and Mouleus of eminence to the institute and so to pro-mote an interchange of the higher scholarship of both the old and the new school of crientalists throughout India. But before formulating a defi-nite scheme the Governor General in Council desires to consult Local Governments.

PRESERVATION OF THE ANCIENT LEARNING.

29 While making provision for accolarship on modern lines, the conference down attention to the recessity of retaining apparately the ancient and including anone systems of instruction. The world of solution the properties of the conference of

(a) grants to Sanekrit colleges, madrassas, tols, pathalas, maktabs, pongy kysungs and other indigenous institutions in order to secure better salaries for teachers and to enable students by fellowships or scholarships to carry their education to the highest unit nossible;

- (b) the appointment of specially qualified Inspectors in orientalia;
- (c) the provision of posts for highly trained Pandils and Moulets;
- (d) the great of money rewards for oriental work. The Government of Iudia hope to see the adoption of measures that are practicable for the maintennee and furtherance of the ancient indigenous systems of learning and have called for proposals from the Local Governments to this end.

EXPERTS REQUIRED.

60. The functions of local bodies in regard to education generally and their relations with the departments of public instruction are under the consideration of the Government of India. But it is clear that if comprehensive systems are to be introduced expert advice and control will be needed at every turn. The Government of India propose to examine in communication with Local Governments. the organisation for education in each province and its readiness for expansion. A suggestion has been made that the Director of Public Instruction should be ex-officio Secretary to Government. The Government of India agreeing with the great majority of the Local Governments are unable to accept this view, which confuses the position of administrative and Secretariat officers ; but they consider it necessary that the Director of Public Instruction should have regular access to the head of the administration or the member in charge of the partialia of education. The Government of India wish generally to whiles to the full the support and enthusiasm of district officers and local bodies in the expansion and improvement of primary education; but the large schemes, which are now in contemplation, must be prepared with the co-operation and under the advice of experts. A considerable strengthening of the superior inspecting steff, including the appointment of specialists in science, orientalia, etc., may be found necessary in most provinces. In Madras an experienced officer in the education de-

partment has been placed on special duty for two years to assix the Director of Public Instruction to prepare the scheme of expansion and improvement in that province, and the Government of India would be glad to see a similar arrangement in all the major provinces should the Local Governments dasirs it.

INTERCHANGE OF VIEWS.

61. In the resolution of 1904 it was stated that arrangements would be made for periodical meetings of the Directors of Public Instruction in order that they might compare their experience of the results of different methods of work and discuss matters of special interest. The Government of India bave already held general conferences at which the Directors attended and they are convinced that periodical meetings of Directors will be of great value. While each province has its own system it has much to learn from other provinces, and, when they meet, Directors get into touch with new ideas and gain the benefit of experience obtained in other provinces. The Government of India are impressed with the necessity not only of exchange of views amongst experts but also of the sdvantages of studying experiments all over India on the spot: and in a letter of the 7th July 1911, they invited Local Governments to arrange that professors of arts and technical colleges and Inspectors of schools should visit institutions outside the province where they are posted, with a view to enlarg. ing their experience.

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CONCLUSION. 62. Such in broad outline are the present outlook and the general policy for the near future of the Government of India. The main principles of this policy were forwarded to His Majesty's Becretary of State on the 28th September 1911, and parts of it have already been aunounced. It was, however, deemed convenient to defer the publication of a resolution until the whole field could be surveyed. This has now been done. The Governor-General in Council trusts that the growing acction of the Indian public which is interested in aducation will join in establishing under the guidance and with the help of Government, those quickening systems of education on which the best minds in India are now converging and on which the prospect of the rising generation depend. He appeals with confidence to wealthy citizens throughout India to give of their abundance to the cause of education. In the foundation of scholarships; the building of hostels, schools, colleges, laboratories, gymnasia, swimming baths, the provision of play-grounds and other structural improvements; in furthering the cause of modern scientific studies and especially of technical education; in gifts of prizes and equipment, the endowment of chairs and fellowships, and the provision for research of every kind there, is a wide field and a noble opportunity for the exercise on modern lines of that charity and benevolence for which India has been renowned from ancient times.

Government of Madras Ditte Bombay ñ Bengal. Ditto the United Provinces the Punjab. Ditto 17 tto Barme

T) tto B har and Orissa The Honble the Chief Commissioner Central Provinces The Hos ble the Chief Commissioner, Assam

The Chief Commissioner of Coorg The Hon ble the Chief Commissioner and Agent to the Governor General No th West Frontier Province, The Home Department.

The Foreign Department

The Department of Revenue and Agriculture.
D tto Commerce and Industry

Order -Ordered, that a copy of the above Resolu tion be forwarded for information to the Local Governments and Administrations and the Departments of the Government of India noted on the

mare n

Ordered also that the Resolution be published in the Supplement to the Gazette of India-

IL SHARP. Joint Secretary to the Government of India

SIR A. SASHIAH SASTRY, K.C.S.I., An Indian Statesman—a Biographical Sketch

RY

B V. KAMESVARA AIYAR, MA

Puduk attas Price-Re 2

SELECT OPINIONS.

The London Times - A well written life of this enlightened statesman and reformer undertaken by the request of the Maharajah of Travancore The London Daily News,- "

This book contains many stories of the tact and judgment which enabled him to fill the delicate post of adviser to an almost absolute monarch A book like this will do much to open the eyes of Europeans to Indian affairs as viewed from the native standpoint The English of the author is almost perfect .

The Madras Mail (Leader).-Mr Kamesvara Asyar has not only an excellent English style, but also that essential qualification of a biographer, a due discrimination of values in his treatment of the materials that he has collected . The result is in every way excellent Sir Sashiah Sastry contains lessons for all of us, Europeans and Indiane alike, and there is hardly a page of his biography which does not throw light on the problems which face us to day Mr Kamesvara Asyar ably and successfully sums up his career And

UNIVERSITY OF BOMBAY.

CONVOCATION ADDRESS.

The following address was delivered by H. E. Lord Sydenbam, the Chancellor:—

Mr. Vice-Chancellor and Members of the Univerity of Bombay--

It has been well said that the British people "only hold India on the tenure of continuous amelioration." To secure continuous advance in every direction leading to the moral and material well-being of all classes is the manifest duty of all Governments however constituted and the sole justification of their existence; but upon us the responsibility lies with special weight. We found an India distracted and wasted by internal wars. split into fragments and incapable of self-organization. To enforce stable peace was the first necessary condition of the establishment of a system under which law and order could be maintained, justice administered and national consolidation rendered possible The way to British ascendancy was long, ardnous and critical. For all Indians who desire-as many do-to pass judgments upon existing institutions, careful study of their history from the period when the European Powers became involved in Eastern enterprize is essential. Such a study would provide a needed corrective of the misconceptions which find too frequent expression and would exercise a sobering influence upon the trend of political thought.

Portugal, Spain. Holland, England and France have all contended for supremacy in the East, and the destinies of India turned upon vastly complex issues which were gradually determined by the interaction of great European forces. The short period of Portuguese prosperity in the East never recovered from the annexation of Portugal by Spain in 1580. Spain, at the end of the 16th century. claimed the monopoly of all trade with the East Indies and regarded the Indian seas as her territorial waters; but such a claim could not be sustained. Spanish enterprize was diverted to the Western hemisphere, and the recognition of the revolted Dutch Republic by Queen Elizabeth involved Spain in a naval war with England which extended to Asian waters and was fraught with momentous results to India. The Dutch captured from Spain the original Portuguese possessions, founded their East India Company in 1603, two years after the grant of a Charter to the London Eest India Company, and endeavoured to establish a monopoly of the trade of the East as complete as that which had been claimed by Spain It was this Alliance between England and the Dutch United Provinces that gave the first impulse to British trade with

India. The Kingdoms of Spain and Portugal disappeared as contestants for commercial supremacy, and the Dutch and English Companies entered upon a long course of rivalry which lasted during the greater part of the 17th century and included three wars. The second of these wars found Holland in alliance with France one year after the establishment of a French East India Company, which was to play an important part in the aff-ire of India. The death of Anrangzeb in 1707 led to a climax in the period of disorder from which the East had long suffered acutely. Alike in Persis and in India, the great dynastics which had ruled for a century and a half were tottering to their fall. The Moghal Empire, which had maintained its ontposts at Kabul and Kandabar, was quickly shattered. Bengal fell into the power of an Afghan adventurer; a new dynasty was founded in Oudh, and anyone who could command a sufficient following might carve out for himself a short-lived kingdom. The Maratha bands, developing into devastating armies, over-ran Central and Western India and contributed nowerfully to the general break up of anthority. When, in 1738, Nadir Shab. the successful soldier who had destroyed the Persian dynasty, swept from the North Western passes to the sack of Delhi and the wholesale slaughter of its inhabitants, the irrevocable ruin of the great Mogbal Government was practically complete, and ten years later Ahmed Shah from Afghanistan conquered the Punjab. The Indian people, in Sir Alfred Lyall's words, "were becoming a masterless multitude prepared to acquiesce in the assumption of authority by anyone who could show himself able to discharge the most elementary functions of Government in the preservation of life and property "

This stupendous catastrophe-the greatest that India has yet experienced because never before had authority been wielded on so great a scale as by the Mogbal Empire in its prime-was due wholly to alogasi Empire in its prime—was due whonly to internal causes. That it directly and inevitably paved the way for political intervention by the European Powers is beyond doubt; but the question of supremacy remained to be decided by the operation of great forces in which India played no part. Following Portugal and Spain, Holland also disappeared from the lists. A Danish and an Austrian Netberlands East India Company had died natural deaths. France and England at length stood face to face, and for a time the activity of the first was the greater. From 1744 to 1749 the two rival Companies were at war on the Indian Sea board with results which were distinctly encouraging to the plans of Dupleix, who had initiated the policy of intervening in the quarrels of Native Princes where French interests could be promoted. Thus inevitably arose the political rivalry which changed trade centres into bases for territorial expansion, and since trade needs peace and order as the primary conditions of its prosperity, such expansion continued, as Dupleix clearly foresaw that it must, after the French cause in India had been irretrievably lost. The confused warfare between the French and

^{*} Reprinted from the University Edition of the

English Companies added to the prevailing distraction of Inda, but had no real effect on the final issue. Financial difficulties asseiled the former, which from the first was closely associated with the French Government, while the latter was an association of traders not brought under the control of Perhament util 1773

Upon the potentialities of British Sea-power, the fate of India absolutely depended and they were governed by conditions, racial and political, which shaped themselves in seas and lands far away. The Seven Years War, which began in 1756 and ended in 1763, was a treumph for the British Navy which, after ravaging the French coasts, won a brilliant victory in Quiberon Bay crippling the naval strength of France and enabling the British conquest of Canada to be achieved with results infinitely important to the future of the Empire In the War of American Independence, from 1775 to 1783, Great Britain without an ally was involved with France, Spain, Holland and her revolted Colonists and was menaced by the Armed Neutrality of Russia. Sweden Denmark and Prussia. The strain upon the national resources was intense, but the Navy remained undefeated and rose in the Ware of the French Revolution and Empire from 1793 to 1815 to the summit of its power The failure of the Navy during this series of international wars in which it fought against the combinations of the great maritime Powers would have quickly reacted upon India against which the last French naval effort was made in 1781 From the Peace of Versailles to this day, no Naval Power has attempted to contest the command of the Indian seas, and the trade of India, now increased to vast dimensions. passes secure under the segme of the British flac am sure that the growing commercial classes of India and the large number of Indians who depend upon the operation of sea borns trade realize what this means to their vital interests

Once again did French designs upon Ledus take Practical form. In 1928 Napoleou dramming of an Eastern Empire, did a great propose designation of the Nise date of the Nise date to the Nise date of the Nise date

Second by maril supremery against the reterest too of any European Power is would have been possible for the British to proceed systemsically to the subjugation of Idea, but the was not attempted to the subjugation of Idea, but the was not attempted to the subjugation of Idea, but the was not attempted to the subjugation of Idea, but the was not compared to the suprementation of Bengal, which soon followed to the compared to the suprementation of Idea and the State of Idea and Idea an

capitals of the great conquering dynastics had been founded in the broad fertile regions watered by the rivers fed from the Himslevan snows. But never before had the gate of these regions been held by Power which came by and drew its strength from scroes the sea. Henceforth for 150 years, Calcutta was to be the centre of British Government in India, and a new political era brgan leading to the territorial ascendancy which, after the collapse of French rivalry, became inevitable. The process of expansion went on intermittently during nearly a century before the peace of all India was at length secured and circumstances over which the British exercises no influence beloed to bring about the final result. In the year of Piersey, an Afghan Army descended upon Delle ; but Ahmed Shah's Viceroy soon found that his dominion in the Panjah was challenged by the Marathas who took Delhi and Lahore and reached the summit of their power In undertaking the corquest of Northern India they had overest! mated their capacity and the retribution was swill and summary In 1760, Ahmed Shah with a large army from Afghanistan, relook Labore, and moved south-castward to the Jomra heavily defeating Holkar and Sindia The Peshwa made a great effors to retrieve his fortunes in Northern India, and at Panipat in 1761, the Marathas were routed in one of the greatest battles ever fought in Indian soil The Maratha Power never wholly recovered from this blow and, though it remained formidable, symptoms of the same tendencies which had involv ed the ruin of the Mogbul dominion soon began to show themselves, and contributed to the final overthrow at the beginning of the 19th century. Ahmed Shah unlike some pravious invaders did not follow up his victory by consolidating his power, and the Punjab quickly lapsed into anarchy until the short-lived Sikh kingdom became established. In 1797, his successor Zimen Shah re occupied but could not hold Labore, and the series of Mahomedan invasions which had lasted for 700 years came to an end these events favoured the opward movement which was to lead the British from Bengal to the mountain frontiers of Afghanistan

The hasty and incomplete aketch of a long sed tangled chapter of history which I have attempted to the property of the property of the property of the property of the long state of the force which brought about the conditions under which worm live in India I not be long period of section of the property of the proper

stable frontiers to be attained. That, when the period of expansion ended, one-third of India semained under native Role, and that innumerable States, large and small, should have been exerfully preserved out of the welter of long racial and dynastic ware, enjoying security never previously known, is the best proof that our motives were never inspired by greed of territory.

Scarcely 150 years have clapsed since it became certain that dominion in India lay open to Great Britain and not to France from whom it might have been torn after Trafalgar or after Sedan. During little more than 50 years, since the cataclysm of the Mutiny, have we been able, in the full security of peace, to devote ourselves to the great work of "continuous amelioration" throughout the vast territories which have passed directly under the Crown. During the years of storm and stress through which Great Britain passed between 1756 and 1815, the ever growing responsibilities of the British people toward India may not have been realized. Full consciousness of our sacred obliga-tions would not be reached until peace reigned over the length and breadth of India. It found expression in the Oueen's Proclamation of 1858, and it has broadened and deepened ever since. The Britain of Queen Anne was not that of the Great Queen-Empress, which again has changed materially in becoming the Britain of His Majesty King George V and must continue to change. It is as unjust to attach importance to errors and defects which occurred in days that are gone as it would be to dilate upon atrocities perpetrated under contom-porary Indian Rule. The one have long been as impossible as the other.

That dominion in India fell to a maritime Power was the certain result of causes operating through many centuries in India itself. That each dominion fell to Britain was not without certain advantages.
The author of "The Foture of England" analyses the reasons of the position won by the British people in the world, and after diamissing various hypotheses be reaches the conclusion that they-first among the nations-wrested from the State the right of religious freedom and with it civil liberty. To this conquest he traces the rise of our gigantic Industrial system. " England had shaken man's authority and founded freedom. Free England had abaken nature's authority and founded industrialism " to which the best workmen of Europe, floring from religious persecution, powerfully contributed. To the nation which led the world in sectionit edt grieret ai bas etredit aswed gairuns resources of nature to the service of mankind fell dominion in lades. In the century during which that dominion was established, there was no other nation nearly so well fitted for the first task of boilding up gradually, but surely, an orderly and a just Covernment. Who will say that any other nation would be better able than are we to carry through the second task-that of uplifting and welding the heterogeneous peoples of India into harmonious nationbood and of leading them to

develop the natural resources of their great country?

This second task, in which we are now engaged and by success in which perhaps the historian of a distant future will mainly base his judgment upon our achievement, is proceeding steadily by various processes. Law, which never before our day was uniformly enforced, is a great, if sometimes a harab, Schoolmaster. And if a great system of law. devised with the best intentious, has led to a mania for litigation intensified by the gambling instincts of the East, it is nevertheless a unifying force. Railways, telegraphs, the postal service, irrigation on a rast scale, even good roads are all playing their part in blending interests and breaking down social barriers. A nation in the modern sense could not be built up in India without railways which we have spread broadcast throughout the land. The English language, which is rapidly becoming the lingua franca of India, is snother nationalizing factor of great importance, and without it the "National Congress" would be practically impossible. The self-sacrificing labours of Missionary associations of many kinds are providing examples of philanthropic service which can be helpful to Eastern peoples with national aspirations. The liberal system of Local Self-Government which now exists supplies full opportunities for the harmonious working of all communities in the discharge of important civic duties. The enlarged Provincial Council provides higher training in the orderly conduct of affairs and brings together twenty-nine Indian Members, widely representative of Indian interests, to decide upon all legislation and to discuss matters affecting the public welfare.

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You perhaps thick that all these and other means of nation building are of minor significance compared with what is conventionally termed "Education of the period of the control of the period of

In Eogland, the evalution of higher education was alove, and the receive year unorganized and not constituted by Unercenty year unorganized and not constituted by Unercenty year the control of the constitution of the constitut

liberty In later years education, long conducted entirely by the religious badies became one of the most important functions of the State. The first national grant for adnostional purposes was made by Parliament in 1832 and in 1843 the State gave fluencial aid to Training Colleges The gross inefficiency of the teachers revealed by a Commis sion and the orgent needs for organization led to the Education Act of 1870 which nationalized Prismary Education This and subsequent Acts up to that of 1902 established the free and compulsory system which now prevails E glish Secondary Schools existed before the accession of Henry VIII in 1509 and partly as a result of the Renaissance. 800 Grammar Schools were established in the following century while most Cathedrals had an attached school These schools developed on lines of their own some of them attaining distinction. while many were hopelessly mefficient Great changes have been carried one in recent years and though Secondary Education of the middle classes remains self supporting grants in aid are now made to enable schools to provide free Secondary Education for the children of the working classes Under the Act of 1907, as stated by Lord Haldane at Bristol the other day the clever boy or girl can generally obtain a scholarship or a free place in a Secondary School though further progress is still d figult. The completion of the chain connecting the Primary Schools with the Universities will soon be accomplished In this Presidency Government now provide for ten per cent of free scholars in our High Schools and the Aided Schools may extend the High Schools and the Aidest Schools may extend the free latts to 15 per cent. The Schools of the United Kingdom have about 16100 populs compared with about 400000 in Germany taught. by 20,000 highly trained teachers Since 1907, the teachers in the Flementary Schools of Great Britain have been obliged to spend a whole time period in a Secondary School before entering a Training

When Western learning began in India, education in England though considerable in quantity. was largely mefficient and wholly unorganized Only in the latter half of last century was it real zed that we were falling behind other countries and es pecually Germany where a great system dev sed and controlled by Government was being repidly built The Brit sh habit of trusting to private agency and private off ore, which has some great advantages, proved to be quite unsuited to modern educational prode and the nation which led Europe in industrial enterprize was threatened with defeat on the field which it had domirated Not only in recentific training but in general education we found that we were in danger of being cuidistanced by rivels and that our national progress was impeded. Our complacence received a rude shock and we attempte and in earnest to set our educational house in order.
The paramount importance of Government responsib lity in regard to education in all its branches is now recognized ; careful study is devoted to education as a subject per se, and numerous and drastic

reforms are in full progress. The great question for this country fooday is webster Indiana, like the Japanese, will redome and assist incorpring on corresponding reforms or whether they will red satisfied with obsolete methods which all advanced peoples have left far behind. Upon the answer to this question the need of the progress of Indias towards automodo largely depends.

It is a currous fact that the date of the first con tribution from national funds to education in Eng land only anticipated by three years what was a turning point of education in India Lord William Bentinck desired that the education of India should be based upon English literature and science. The first direct impulse, however, came from the Law Member of his Conneil, who in contemptuous rhetoric gave a false direction to education from which India has not get recovered Lord Macanlay & initial work on the Penal Code which he did not remain to complete, was admirable. His idea that education should nim at producing Government officials showed a narrowness of vision which India has reason to deplore As M Chailley points out. "It necessarily followed that pupils were to be sought, not among the mass of the people, but in a special class Until recent years Primary Educa tion has been too much neglected, while Secondary and Higher Fducation absorbed a disproportionate share of public funds The famous despatch of Sir Charles Wood in 1854 aimed at redressing the balance and with a breadth of view remarkable at this period enunciated a policy of giving instruction to the masses of the people, discussed methods and promised financial apprort. For various reasons, the results were most disappointing, but new administrative machinery was created and Higher and Secondary Education gained to some extent In1857 the Universities of Calcutta, Madras and Bombay were formally inaugurated. The Act of that year, in the preamble, laid down that these new Institutions were primarily established for the purpose of ascertaining by examination the persons who have acquired proficiency in different branches of L terature Science and Art, and of rewarding them by Academical Degrees' This miserable con ception of the objects of a University was apparently due to the selection of the London University as a model for India The London University has since undergone radical reforms; but the Indian Universities m shreeted from their start, remain unregenerate

The important Comm name of 1992 we compiled to state that "an rabilly porread University extension is subordinate to teaching, it India, isasking his bern made subordinary to fraction, in the Commissioners most with regarded. This, the Commissioners most with regarded. This, the Commissioners most with regarded. The first the state of the st

noted the existence of "a very general desire that all the Universities should be recognized as teaching bodies," and they made proposals for enabling them to provide "advanced courses of study."

The Report of this Commission and the Minutes of evidence should be carefully studied by everyone who desires to form any opinion upon the state of higher education in India. By 1902, Government and the Indians best qualified to judge had become perfectly aware of the grave defects in the system of higher education-defects which the Act of 1857 must have brought about in any country, but which were powerfully intensified by the characteristics, social and intellectual, of the Indian people. Examinations had been allowed to run riot with results demoralizing slike to the Universities and to education generally. To pars the Matriculation and to obtain a degree became an object of ardent desire, attracting large num-bers of boys who inevitably failed in both; or, if successful, too often found later that their equipment was of no practical value. Meanwhile the Universities continued mechanically to grind out passes and failures; kindness of intention led to real cruelty; standards were lowered and with increasing numbers came deterioration of teaching power. In the Bombay University, the proportion of teachers of all ranks to students is about I to Si. At Oxford it is I to 7.2 and at Manchester 1 to 64. Such comparisons are necessarily inexact; but they help to emphasize the indesputable fact that classes in some Schools and Colleges are far too large for education worthy of the name. The fierce struggle for objects too often tragically illusory and weakness in teaching power led to dependence upon memory, the faculty which many Indians possess in marked degree, with disastrons results to edu-cation. "The text-book," writes M. Chailley, " reigns over the Indian Colleges in all its bideousness and it is not only the students who are possessed of these manuals." I need hardly say that a good text-book may be advantageous or even indispensable for certain subjects, though in the higher branches of study it should have no place. It is the misuse of the text-book by teachers and students that is in fault, and examinations which can be successfully passed by pupils who bare committed passages of their manuals to memory react upon the teachers and are causes exusantes of the failure of education to do justice to India. The kindness, which may be cruel to individuals and must be injurious to national progress, is responsible for the form taken by too many of the University examinations. "A good examination paper," stated the Commissioners of 1902, "is a work of art," and they went on to make some practical suggestions on the subject which have been ignored,

Higher education in India can make a fair display in tabulated statistics. The number of students in the Universities is very nearly identical with that in the United Kingdom and more than three times as great as that in Japan. Of all pupils under instruction, about one in 1,400 is

receiving University training in the United Kingdom. The corresponding figure for Bombay is one in about 168. In the United Kingdom about one pupil in 34 is in a Secondary School; in France one in 33; in Bombay one in 112. In proportion to population, for reasons which are plain, the percentages are still very low for India, though 25 3 per cent. of boys of school age are now under instruction, and this figure is mounting every year. Some relation between pupile in the different stages of education roughly approximating to that existing in other countries might have been expected; but causes, which I have endeavoured to explain, have produced a startling disproportion of University and Secondary students in India. We have in fact built up an inverted pyramid for which broad and stable foundations must now be provided: If the quality of the output of the Universities of India approached that of the Imperial Universities of Japan which have less than one-third of our number of students, the progress of India would be greatly accelerated. Lecturing some years ago, Dr. Bhan-darkar significantly asked: "Why should we not move on, side by side with Europeans, in the great fields of thought? Why should discoveries be made in France, Germany and England and not in India !" Anyone who will make a conscientious study of the state and methods of the Universities in India will find no difficulty in supplying the answer.

Higher education has fallen within the confines of a vicious circle. The Universities were created to examine and confer degrees. Indian students eagerly sought to pass the Matriculation and to win degrees. Mistaken kindness demanded a large pass list, admitting boys quits upprepared for University training. Moreover, to render these passes possible examinations of a special kind were necessary. The admission of unprepared boys wasted and enfeebled the teaching power of the Colleges, and both Colleges and High Schools were forced by the character of the examinations into methods of teaching having no relation to education and harmful to the best students. One Institution, recently criticised, retorted pertinently that, "as long as the present system of examining is adhered to by the University, the system of dictation is almost forced upon the Colleges." These evils inevitably reach upon the University itself tending to produce lowering of standards to meet popular demands, and thus completing the chain of error which presses heavily upon the student and impedes the progress of Indis. I do not mean for a moment to imply that there is not good teaching in some Colleges and Schools; but such teaching does not obtain fair play and cannot stand out as it deserves. The mental strain upon the student, especially before the numerous examination periods, is often excessive and usually quite dispreportionate to the amount of sound knowledge acquired. The economic strain may ruin a family without any compensation, when as too often happens they have stinted themselves and borrowed to provide a son with a standard of education for which he is not fitteds The Commission of 1902 had down that the sais of fees should not be so low as not temps a proceed and the continuer ability to follow a Universal Commission of the continuer ability to follow a Universal Commission of the Commis

The Government of Londenseedings of March 1908 which followed the consideration of March 1908 when the Government of Londenseed of the Commission of 1902 its armount in larger of the Commission of 1902 its armount of Londenseed of the Commission of Londenseed of Londenseed of the Londenseed Londenseed of the Londenseed Londensee

The startling revelations of the Commission of 1902 led to the Universities Act of 1904 which gave statutory force to a few of its most urgent recommendations. The result of this mild Act was a loud and widespread clamour which has not yet died away and which caused sorrow and discouragement to every true lover of India. The object of the Act-so its opponents alleged-was to "Officialize the Universities" This parrot cry was taken up by writers and speakers who had never read the Report of the Commission or the remarkable Resolution which followed, were unaware that in Germany and in Japan the Universities are con trolled enursly by Government and for that resson are peculiarly efficient, and ignored the pregnant statemens of Dr. Bhandarkar, one of India's greatest statement of Dr Ebanderkar, one of require giveness scholars that "Educational opinion should prodominate in the government of the University" Prejudice having been thus aroused, it was in evicable that, as in all such cases, consideration of the real sames should drop out of sight. That Government sincerely desired only to remedy patent evils, tending to become obronic, which were visibly checking progress in India, and could have no other motive, was quite forgotten. The misconceptions thus engendered bear dead sea fruit to this day and have helped to neutralize the good that might have been accomplished. M. Chailley, whom I quote again became an acute Frencherum of our administration cannot be credited with efficial or recult bias, after characterizing the Act of 1908 six "the real charter of present days education to India, asks "Will to prove really functionary" ally own opening, he adds, "tas the functionary and the second of the se

Members of the Senate-

I trust that you will forgive me if I have seemed to dwell too much upon the essential weak points in our system of education When I first had the bonour of addressing you five years ago, I confessed to a "sense of disappointment" at the results of higher education. That some has been deepened by fuller knowledge and it has been my earnest endeavour to get to the root of the causes which are operating to make the output of our Universities inferior to that of other countries and madequate to meet the ever growing needs of India. Upon you, individually and as a body, heavy responsibility rests You control higher education in this Presidency, and when education is sound and thorough at the head the effect permeates the whole system As Chancellor, I thank you for the progress which you have accomplished We now have a rational curricolum, which will require revision from time to time to conform to the general advance of education among all progressive nations of the world, but is a marked supprovement upon the patch work which formerly existed You have abolished compulsory English History, which no other Indian University adopted, which was strongly condemned by the Universities Commission, and the teaching of which onversues commission, and the teaching or white for the BA. degree was characterized by your distinguished late Vice Chancellor Dr Selby, as "a farce" You have just abolished the Previous Examination another speciality of Bombay-a step that the second se which I nrged about 41 years ago If you have not agreed to silow Colleges to admit their own undergraduades and thus to seeign to the Matriculation Examination its proper place, it may be hoped that this reform, which would lend vigour and indivi-duality to the Colleges and relieve the University of a barden which it is not well fitted to bear while retaining all its proper functions of control, will be reached ultimately. Meanwhile you have distinctly improved the Matriculation course, and you have accepted the Senior Cambridge and Oxford Exammations and the European High School Examinations, on certain conditions, as equivalent to the Matriculation All this shows progress; but I need hardly tell you that the most perfect curriculum may be rendered absolutely worthless by examinations Already a fear has been expressed and is qualified that the BA of the future "will emerge no longer with a general smattering of four subjects, but with an equally superficial knowledge of two only" This disastrons result you and you alone can avert if you realize what the quality of your cutput means to India. I congratulate you on the

new opportunities which, if they are turned to good account, will advance the best interests of the Presidency. Five years ago I pointed to the neglect of Science and its necessary consequences. to five generous citizens, representing all the great communities, the Director of Public Instruction can now write that "the reproach that teaching in Science on up-to-date lines is not available within the Presidency will soon be done away' The fine institutions at Bombsy and Ahmedahad, if properly worked, must stimulate industrial enterprize on true Swadeshi lines and help to correct " the incapacity to observe and appreciate facts and the taste for metaphysical and technical distinctions" which too frequently mar the success of the Indian intellect in the great fields of human achievement. The liberal assistance provided by the Government of India will enable you to take an immediate step in advance, but do not believe that only by increase of funds can the University be regenerated. Ample work hes before you into which financial considera tions do not enter. Forget, I b g you, the unhappy preamble of the Act of 1857, and keep ever before your minds the bighest University ideals. A Uni versity, wrote Dr Newman, "is a place where enquiry is pushed forward, and discoveries verified and perfected, and rashness rendered innocuous, and error exposed by the collision of mind with mind and knowledge with knowledge. It is a place which wins the admiration of the young by its celebrity, kindles the affections of the middle aged by its heauty, and rivets the fidelity of the old by its associations." "Universities," said Mr Bryce recently at Adelaide, "exist for the sake of truth." When such ideals are reached, the building up of an Indian nation will make giant strides implore you to receive and welcome all serious proposals for reform, even if they emanate from the head of the Government, to discuss them from the educational point of view only, scorning suggestions of ulterior mutives, and resolutely to keep clear of political methods in the conduct of your responsible deliberations. The University of Bombay now numbers more than twice as many students as are under training in Oxford and Cambridge combined, and more than four times as many as in Liverpool University. The number will soon be further increased. and clearly this great aggregation is beginning to exceed reasonable limits. Before long sub division will be essential, and when the time comes, I trust that you will all realize that your personal dignity

will not be affected in the alightest degree by a change which will simply mark the advance of India

Students, past and present-

This is the last occasion on which I shall be able to meet you, and I wish that I were able to say what might remain in your minds and inspire you in your future careers My active life must shortly end Yours' is only just beginning Before each one of you he opportunities of belong in the building up of Indian nationhood. It has been well said. that ' the first question a University teacher should ank himself is, 'Am I tousing a spirit of enquiry in my pupils ?" and that if the answer is not in the athrmative, the University fails in its objects. How far the spirit of inquiry has been roused in you is known only to yourselves. What you may have learned or are learning by rote will be absolutely useless. Everything that you have so learned as to cause a reaction upon your minds, opening out new fields of thought which you can exploit for yourselves, may prove invaluable "The true test of intelliciual progress ' said Dr Jowett, the great Master of Balliol, ' is not acquisition, but the increase of the powers of the mind' If you can pass that test, then assuredly your time in this University will bear good fruit in your own careers and in the great life of India in which you can play a worthy part Character, knowledge and work will carry you far in any form of activity which you may select; but the character must be formed on high ideals, the knowledge perfectly assimilated, and the work patient and unflinching, 'lalent," wrote Zols, "sees opportunity, genius creates it, but only patience and labour sesp its most perfect reward To all that you may attempt, small things as well as great, give your best, and be sure that, in so doing, you will gain in capacity and add new strength and symmetry to your character "Nothing, wrote Michael Angelo four hundred years ago, "makes the soul so pure, so religious, as the endeavour to create something perfect, for God is perfection, and whoever strives for perfection strives for something God like.

With all kindly whihes for your individual happiness and success, and with earnest hopes that you will each in some measure help in the advancement of india which is my ferrent desire and for which I have laboured. I but you farewill.

PROTEST OF THE CALCUITA UNIVERSITY AGAINST THE DACCA UNIVERSITY COMMITTEE'S REPORT.

Penu

To

THE REGISTRAR.

CALCUITA UNIVERSITY

THE SECRETARY TO THE GOVERNMENT OF BENGAL, General Department, (Liducation).

Senate House, the 4th March, 1913

Sur In reply to your letter No 7463 forwarding 18 copies of the Report of the Dacca University Committee, and requesting that the Syndicate of the University favour Government with their opinion on the Report, I have the bosour, by order of the Syndicate to state, in what follows, the views which the Syndicate as a body entertain regarding the scheme outlined in the Raport I also have the honour to enclose herewith certain hotes on the Dacca scheme written by individual Members of the Syndicate Some of these notes raise questions which though important the Syndicate do not desire me to deal with specially in the present letter -among them the question as to the financial aspect of the Dacca scheme which, the Syndicate have on doubt, will receive full attention from the authorities. and the proposed perpetuation, in the contemplated University, of the distinction between an Indian and a Provincial Educational Service to which in the opinion of the Syndicate serious objection may be taken

Unterstey, that well has the contemptated Dacca Unterstey, that well has I therement of a reasonably different from the exacting Untersteine While has have seen because the beginning from the exacting Untersteine While has have see heart-terred a bong manip while has been considered as the provided of the provided of the heart o

to themselves Dece no doubt will not exercise examining fonct on estable the own arrow epither, and this will constitute a real distinction between it not the chief informations. But as few as techniques the new Institute of the chief in t

Many of the details of the arrangements proposed for the Dacea Institution would afford room for criticism, the Syndicate bowever have no wish to take up these matters fully on the present occasion, as d they abstain sitogether from offering remarks on the courses of study and the syllabuses set out in the Report. The Dacca Committee evidently has gone into these questions very carefully, and the Syndicate have no doubt that the existing Universities may take many a useful bint from the schemes outlined What the Syndicate desire me to dwell on in the letter, is in the first place some few of the details of the Dacca scheme which appear to derive special importance from the circumstance that they are likely to effect, by and by, toe working of other Indian Universities to some way or other, and in the second place the effect which the foundation and maintenance at Decca of a University on the conditions set forth in the Report is likely to have on the interests, position and prospects of the University of Colcutta which so far has singly guided and determined the development of higher education in Bengal The Syndicate make no doubt that their special claim to be heard on this latter subject in particular will meet with ready recognition

- 2. The first point on which I am directed to touch as the arrangement under which it is preposed to allow Direct students to pass the Extensions of the University without appearing in all its subjects presented at all the subjects presented at all the property of the extension of the University of the Extension of the American State of the Course will be to make it search for students to get through the Extension town was fully considered and fashly respected, by the University Commission of the Marchael of the Examination in this way, other Universities will be tempted, possibly driven, to do the sames which the two in that the intension value of the sames which the two in that the intension value of the country (see a would be dismanded all over the country (see
- 3 The second point I take up is the institution of so-called Itlamin degrees to be conferred on students who, in place of the ordinary Arts and Science Courses of the University, have taken up a special course of 'islamo' studies which will combine the study of English as a language with the study of certain branches of knowledge as yieuted.

and developed by the great teachers and scholars of Islam. The intention is to accept these Islamic degrees as equal in value to the ordinary Arts and Science degrees and to allow to their holders the same openings for entering Government service and the learned professions. This scheme, the Syndicate think, is open to very grave objections. The first question to be asked is whether a University which after all claims to be an essentially modern one and to train young men with a view to their taking part in the life and work of a community poverned on modern and progressive principles, should undertake at all to confer degrees on students who have devoted most of their time to studies of an essentially non-modern and non progressive character and hence have lost the opportunity of coming into fruitful contact with the thought and knowledge of to-day. It can after all bardly be maintained seriously that a knowledge of Islamic sacred law and tradition, and of systems of grammar, logic and philosophy elaborated by Mussalman scholars of long past centuries, is of the same value for the purposes of to day's life, whether in India or in the West, as a knowledge of modern literature, history, economics, physical science a. s. o. There is every reason to fear that the 'Islamic degree'-holder when entering one of the higher walks of practical life-whather as an administrator or lawyer or indicial officer or medical man or engineer or manufacturer, etc .- would find himself placed at a very decided disadvantage, compared to a man who has been taught and trained on bong-file modern The scheme of Islamic studies is said to find much favour with the Muhammadan community or a large section of it; but the Syndicate apprehend that the attraction of the scheme lies mainly in the chance it seems to offer young men of entering remunerative employments on comparatively easy terms. That the Islamic courses are not intrinsically easier than the ordinary Arts and Science courses will perhaps be asserted; but of this the world at targe will not be convinced if the function of testing the knowledge of candidates of either kind by examinations is entrusted to separate Boards of Examiners And there can of course be no doubt that for the Islamic degrees the examining work would have to be made over to Buards of quite a special constitution. The Syndicate do not mean to deny the interest and, in a certain sense, importance of those lines of study which may be termed Islamic, and they think that a new University might very suitably consider the question how such studies may, within due limits, be encouraged and promoted. But, with a view to the standing of the new University as well as to the true interests of the Muhammadan population of Bengal, they would decidedly object to any scheme tending to draw Muhammadan youths in large numbers away from truly modern and practical lines of study.

The scheme of Liamic studies and degrees proposed for D nos, however, raises another extremely serious and far-reaching question. If the Baculastons of a University allow of degrees, with all their councided advantages, being secured by men who

have been trained on old time-honoured Islamic lines, why should not arrangements be made to admit to the same privilege young Hindus who during their college career bave devoted themselves mainly to the study of ancient Hindu lore-less us say Indian law and custom, the indigenous system of Grammer, the philosophic systems of the Neava and Vedants s. s o. f This question, or as we might also say, this demand has in fact been raised already and appears to be by no means without instification. Why should not Brahminical or Hindr or Sanskritic degrees he established side by side with the Islamic ones? The special gravity of this question or claim lies, the Syndicate think, therein that it might before long make itself heard all over India. And this would mean nothing less than a re opening, after a long period of quiescence. of the momentous greation as to the comparative value-intrinsic value as well as value relaitve to the conditions and needs of Indis-of Oriental and Western systems of thought and learning. Our Heisersities might find themselves called upon to re-examine, and eventually, to reconstruct the very bases on which they rest.

4 In addition to the questions touched upon in the last two paregraphs—which must be considered as specially important in view of their baving a direct interest for all Indian Universities—there are a few other points of more local import on which the Spadieste wish to offer a few remarks.

(a) The establishment of a special College for the well to do classes -The Syndicate wish me to exp that they quite fail to see any reasons for the establishment of a college of that special kind, and on the other hand are convinced that such a college would be injurious in more than one way. Young men of the well-to-do, i.e., the wealthier section of the upper middle classes, should not, the Syndiesta hold, be encouraged in any way to view themselves as a special class and to hold sloof from fellow-students whose parents may happen to be less wesltby than their own but who in all essential respects are their equals and probably in many cases their superiors. Nothing moreover should be done artificially to encourage the natural tendency of young mer, or at any rate many of them, to go to needless expense in the matter of food, dress and the like. The authorities evidently intend to make the ordinary Dicca College and its hostels true model institutions of their kind, and places of that type should clearly be good enough even for the wealthiest student.

(M) The arrangements in the main at Deca left be residence of students and for the maintenance of disripline present the Syndicate bold, many admirable features. Dacca in this respect will of course art no very caviable conditioner, suitable and even spiciolal boildiness will be mixed as its and even spiciolal boildiness will be presently be found to externial quite a beautiful proposedly be found to externial quite a book will apprecially be found to externial quite a book end of the course of the co

they do and which provides an elaborate set of restrictive rules meant to safeguard their moral interests is in all respects the best one The forms. tion of character' is what is generally referred to as the main purpose and effect of well organized collegiate life; but it appears doubtful whether a avatem which in so many wave limits and checks a granded individual affort will tend to promote in a sufficient degree the habits, so very essential in later life of self reliance and self restraint. There are many who think that a youth whom circum stances have early compelled to think and act entirely for himself has had a better opportunity to develop 'character' than one whose every forward sten has been watched guided and assisted by well meaning guardians and totors. This however is a rather wide question on which the Syndicate do not mean to dwell further They on the other hand, desire me to say a word as to a special difficulty in the way of the development, in Indian Colleges of that fine collegists spirit which no doubt prevails in the Colleges of Orford and Cambridge. The development of such collegists spirit with all its salutary influences largely rests on intimate and spontaneous fellow feel ng between Students on the one and Totors and Teachers on the other hand All the conditions for the formation of such fellowfeeling are of course present in an English College. In India on the other hand there are obvious great obstacles which cannot always be overcome Muhammadans and Hindus are divided from each other in many ways and even between Hindu Teachers and Hindu Students difference of casts often prevents the formation of close ties of sympathy and trust. In the case of European Totors in charge of Indian Students the difficulties are intensified and multiplied : differences of race, religion, habits of life and so on constitute a series of barriers which are not easily broken down and the existence of which calls for the exercise of a great deal of tact and caution on the Tator s part The roung English Professor who is sent out to this country does not the Syndicate apprehend always possess the special quali-fications required, and if as may bappen now and then, he should impress the students in his charge as strongly conscious of his position as a member of the ruling race bonds of sympathy naturally will be very slow to form The Syndicate of course fully admit that the students of our Colleges should be under some form of superintendence and restraint, and they consider it highly desirable that the Teachers and Tutors should take an interest in the Students well doing --bodily, intellectual and moral-out of lecture hours also Teachers and Students should frequently meet at games, debating societies, occaaronal social entertainments and the like. But they think that it will be wise not to expect or demand too much, and that care should be taken not to urge arrangements which in practice may possibly lead to results altogether contrary to what was intended -fric ion and ill feeling instead of harmony and sympathy

(a) Engineering College -The Syndicate wish to say that they fully endorse the Tiews expressed on

this point in the Notes by individual members of this Sprinctes, sepandially the two Engoneer Members It appears to them that no serious argument for the establishment of an Engineering Colleges at Dace to the matterance of such a College at Dace for the matterance of such a College at Dace of the matterance of such a College at the College at Superform of the College at the College at Superform Faculty, based on the Orth Engineering College at Super for more than half a century, and would deeply regret being deprired of College and Faculty at the same time.

(d) Law Teaching at Deces —The Syndracte are of opinion that the prevision concemplated for the Lw Class at Disca will be hardly sufficient for the adequate teaching of the full Lw Class at the country of the full Lw Course, and that it would really be a preferrable arrangement in the country of the country of the country of the Calcutta University Law College which is open to stadents from the whole Pornoce, and which thereby would be enabled to effect im portant improvements in its own system of workfull. The Syndracts do not however we have existenced some kind of Lw Class at Dacca will be in the interest of the local Institution as whole

(1) Administration of the Timeresity—The Spedicates see to sufficient reason for certain promises reasonable to the Consect of the Connect of the Connect of Connect of

5 I now turn to the second main point—the way in which the establishment of a University at Dacca may be presumed to affect the interests and prospects of the Calcutta University.

That his entrance within the same province of a fully capped (Directorly such as Daca is mean to be, will fonch the notewest of Calcutt an various ways as eviden it will in the first placery the ways as eviden it will in the first placery the ways as eviden it will be provided to the control of the contro

urge each of the rival Universities to perfect its arrangements for teaching and residence. But the Syndicate are apprehensive that if Dacca should be established in tull agreement with the plan now before them the competition would not be an altogether fair one. I have dwelt above on two features of the Dacca scheme which would be specially likely to affect other Universities; their propuble immediate effect on Calcutta in particular may be stated in a few words. The privilege eventually to be enjoy. ed by Dacca of conferring degrees on students who have passed their examinations in compartments would of course render many Calcutta students eager to join a Dacca College; Caicutta would then either have to put up with this loss or to claim the same privilege for its own students, lowering thereby its standard. And the establishment of 'Islamio' degrees at Dacca would no doubt act as a powerful magnet on the majority of the Muhammadan students of Bengal, drawing them to the place where Government employment and access to the learned professions can be had on easier

6. The Dacca scheme however. I am desired to say, gives rise in the minds of the Syndicate to another misgiving of a much graver nature-a misgiving not due to any special feature of the planned University but to the scheme of such a University in its entirety. How, the Syndicate ask themselves, is the fact of Government taking upon themselves the charge of providing a full teaching University at Dacca likely to affect their attitude towards the older University of the Province? Calcutta no doubt has for a long time been mainly a University of the so-called 'Examining' type (a designation, by the way, which obscures the fact of all the 'examining' Universities of India having all along been 'teaching' Universities as well, masmuch as imparting instruction through their affihated Colleges; but it has in recent years taken decided, and as far as they go, effective steps towards becoming a Teaching University in the full sense, by undertaking to organize post-graduate teaching under its own direct auspices. It therefore is naturally anxious that the new aspirations it cherishes and the new efforts is is making should not be crossed or in any way interfered with by a new rival University within the bounds of the same Province. This no doubt need not be the case, for two Teaching Universities may very well exist side by side, each possibly being benefited by healthy rivalry with the other. But the nuterances on this point on the part of the framers of the Dacca Report are far from re-assuring. What, in the first chapter of the Report, they say as to the different possible types of Universities in India, seems to imply a decidedly curious view regarding the future organization and respective functions of the two Universities of Bengal. Their idea apparently is that there is to be one place where higher teaching of the best and most advanced kind will be given. and where students will live to superior residential style: this will be Dacca-the teaching and residential University. Side by side with this there

will be scattered all over Bengal, a number of Colleges where higher teaching of a rather inferior kind will be available, and where the students will be less well-housed and superintended. Colleges-smong them all the Colleges in Calcutta -will be massed together into a so-called 'federal University '-which will be of a non-teaching and con-residential character and whose only innerion at will be to examine the crowds of inferior students who belong to colleges outside Daces, and in addition it seems the candidates for Matriculation from the whole of the Province including Uacca itself. This will be the University of Calcutta-an institution resembling what Calcutta was in old days. with the important difference however that the Calcula of the luture-distinctly labelled as 'ponteaching and non-residential -will be definitely one off from all hope of higher developments and thrown altogether into the snade by the 'Teaching University of Dacca. The Report no doubt makes a reference to Calcutta having of late endeavoured to provide for higher post-graduate teaching; but the implication of the entire chapter, in fact of the whole Report, is that certain Universities (among them of course Calcutta) will have the function of examining-sithough it may be found possible to allow them to arrange on their own account for an much higher teaching as they may manage to find money for. Dacca on the other hand will be nothing but a true teaching University of the highest type for which all required funds will as a matter of course be supplied by a liberal

Government. The Syndicate desire me to say that they must respectfully but decidedly protest against the position which the framers of the heport seem minded to assign to the older University. Calcutta has ever since the foundation of the Indian University system been the leading ladian University and bas in fact, by the courses of study which is laid down and which were copied or imitated by all the other Indian Universities, determined the character of higher education all over the country. It moreover bas, through its affiliated colleges. much the most important of which are located in Calcutta, been a teaching agency of a very high character : no degree has for the last filty years enjoyed a higher reputation all over India than the Calcutta M.A. degree. The highest functions of a true teaching University were perhaps not fully realized by Calcutta before the passing of the New Universities Act; but, the Syndicate wish to point out, these functions were as that time not properly understood anywhere in India, no encouragement on that line was then received from Government and no funds for direct higher teaching on the part of the University were available. But ever since the New Universities Act of 1904which Act was the onecome of a long and searching enquiry into the higher educational needs of the country-had explicitly and emphatically declared that the function of a University is not only to define courses of study and to examine but to be directly active in the sphere of higher teaching ag as to promote learning and research, the Calcutta University has most earnestly and energetically striven to come up to the new standards laid down I am asked by the Sendicate to subjoin in this connexion a very brist sketch of what the University in the course of the last six years has managed to accomplish in the sphere of reform and extension of higher post-graduate teaching It began by extending to the MA teaching which had previously been carried on in cortain colleges affiliated to the University, the same vigorous system of accuting and inspection to which the BA and B So, teaching in all affiliated Colleges had been submitted The immediate effect of this was that M A, affiliation had to be largely restricted, owing to insufficiency of teaching staff and appliances, and that the few Colleges which were allowed to retain affiliation were obliged to appoint additional Professors, to add largely to their Libraries and to provide scientific Laboratories vastly superior to those they had possessed before But as even after these reforms it was evident that the existing colleges were far from equal to the task of imparting efficient M.A instruction in all the main branches of Arts and Science and to all students demanding such instruction, the University, proceeding on altogether new lines, next undertook to arrange for such teaching under its own auspices and partly from its own funds. To that end it in the first place-carrying out a scheme which had been mooted a long time ago and which indeed is specially suggested by the conditions prevailing at Calcutta-proceeded to constitute groups of M A. Lecturers comprising the most qualified teachers in the bigger Calcutta Colleges ; the idea being that in this way of combination and co-operation, effective teaching up to the M.A. standard in various subjects may be given for which the means of each individual coilege would not soffice. And finally the University further atrengthened these groups of University Lecturers taken from colleges, by a certain number of independent Lecturers woo do not hold I rotessorships in Colleges, lecture to University students only and receive salaries out of University funds. The lectures of all the University Lucturers-of either class-are delivered at the University building and are open to gradu-ates of any affiliated college. This new achemealthough in its initial stage only and requiring a good deal of further strengthening and organization has so far proved highly sooceesful and attracted large numbers of students: I may mention that the University M.A. Classes in Mathematics are at present attended by more than one hundred students, and that there is about the same number in History. Further the University has airriven to make a start in the department of such advanced special teaching as may be expected directly to promote research and the extension of knowledge, is has cogaged from time to time the services of Beedure to driver lectures on special advanced subjects among these Beaders there have been men of great eminence whose teaching has had a powerfully sumulating effect on sections of our

senior students. And-most important of all-the University has quite recently succeeded in taking the first steps towards the foundation of a University Professoriate. Six Professorships have so far been founded, or as good as founded, although lectures have not yet been actually delivered by more than one Professor, vis, the Minto Professor of Economics whose chair was founded as early as 1903 For two of the other Professorships-those of Higher Pare Mathematics and of Mental and Moral Philosophy-Government have promised to provide funds, one Professorable, for ancient Indian History and Culture, is maintained by the University out of its own funds, and the foundation of the remaining two-for Chemistry and Physical Science—has been made possible by the generosity of a private individual-Sir Taraknath Palit. It is expected that the University Professors of Mathematics, Philosophy, and ancient Indian History will begin to lecture in the course of next session or at the latest in the next cold season University lectures in Chemistry and Physics on the other hand can hardly be started before well equipped Laboratories for those two branches of study have been erected

I conclude this abort survey of extensions in Higher Teaching by referring to the total referred I saw teaching in Bengal which was connected with the foundation of the University Law College in 1929 In place of a number of ill managed and intificient Law Chaese to which legal instruction in Bengal was previously entrucked, we are indicated the contraction of the numerous and highly qualified staff and where the students are kept under effective contral

Apart from the reform of Law teaching were all that is possible for the present appears to have been done, the Syndicate are well aware that their endeavours to provide University teaching of the highest kind do not represent more than a beginning and that very much remains to be done But they hold themselves justified in maintaining that the beginning is hopeful and establishes claims to effective help towards further development. The highly promising mattenion of University Lecturers would admit of considerable expansion and improvement if the University were in a position to devote more money to it And the most executed want-that of a University Professoriate in which every important brauch of study is represented by at least one teacher who is an authority in his subject-cannot of course be realised even approximately without subvention on a scale far exceeding previous scales.

In these curumstances the Syndicate of the Calcutal University naturally was with magning the Dacca accesses which, if realized as they see it on heper, will necessitate an occurous expenditure on the part of dioternment. What, they sak, will be fit to meet the requirements of growing Lectural fit to meet the requirements of growing Lectural fit to the contract of the contract of the work of the contract of the contract of the contract of the calcuta has been taken to had, and the work begun may no be dropped. Calcuta moreover has invested in this new development not only much thought and labour but a good deal of money. The greater part of the Reserve Fund of the University has in the course of the last six years been spent on acquiring land required for University Extension and in contributions towards the erection of the Darbhanga Library Building and the new Law College Hostel. And the remainder of that fund will have to go before long as a contribution which the University is pledged, under the terms of the Palit bequest, to make towards the erection of Chemical and Physical Laboratories. The greater part of this money would have been spent in wain if, by the unexpected withholding of further liberal assistance from Government, the University would see itself compelled to abandon the idea of higher developments in the teaching line. It must of course be kept in mind that in initiating a scheme of Post-Graduate teaching of an elaborate kind the University has not by any means struck out for itself a line of adventurous policy, the eventual failure of which it would be bound to accept without murmuring: the fact rather is that it has not attempted anything beyond what it was bound to attempt under the new Regulations framed in strict accordance with the Universities Act. In doing what it did the University therefore throughous felt assured of the sympathy and eventual help of Gorernment; and it has not lost this confidence. The University sarely will not be made to suffer for having been willing and prompt-in a much higher degree than any other Indian University—to give effect to the principles of University work and University sims which were announced, in very plain terms, by the authors of the Universities Act of 1902. And it surely has not yet been forgotten that hardly more than a year ago those principles were emphatically confirmed in one important item by no less an authority than our Gracious King. Emperor who in his reply to the Address presented by the Calcutta University referred to the establishment of teaching Faculties and the encouragement of Research as the most urgent task before the Correraty.

No comparison in the proper sense can at present be made between the claims on Government assistance of the Calcutta University on the one and the Daca University on the other hand; for while the former menitution is a real living thing which has established claims by the work of half a century, the latter so far exists on paper only. But a word may be said, the Syndicate think, as to the relative claims of the cities of Calcutta and Daces to be chosen as sease of feaching Universities. It will suffice to roant out very shortly the main qualifications of Calcutta: the contrast which Dacca procests on all those points need not be applically detailed. Calculta-is not only the biggest but beyond all comparison the most important town of Bengal-important not only as the scatof the provincial Coverament and as a great trading and manufacturing place, but also as anduputably being, and as unduputably certain to remain, the intellectual centre of Bergal. It contains within its boundaries, and is terrain to

continue to do so, a body of educated men superior in intellectual qualifications to, and numerically very much stronger than, the corresponding bodies in any other town of Bengal. In consequence of this it possesses, and will continue to possess, a student population more numerous and on the whole more capable than that of any other place in the Province. To provide for the wants of its students, up to a certain stage, it possesses quite a number of wellorganised and well-staffed Colleges, several of which by this time look back on a long and distinguished history. It is the seat of the foremost Indian High Court and of numerous learned Societies and Associations, among them the Asiatic Society of Bengal. Is possesses a splendid Museum attached to which there are a number of scientific men holding higher rank in their respective departments than any other body of men in India. And it possesses several important Labraries which are of the greatest value to advanced students.

In view of all the facts stated above as to the present fitness of the Calcutta University for immediately developing into a Higher Teaching University, and the fitness of the City of Calcutta to be the seat of such a University, the Syndicate think that there would be a great deal of justification for the view that whatever money may be available at present for the promotion of Higher University teaching in Bengal should go to Calcutta and nowhere else. The Syndicate do not however wish to set forth this view as their own; mainly because they understand that Government stand pledged to the establishment of some kind of University at Dacca. But they would advise thas nothing turther should for the present be attempted at Dacca than the strengthening of B.A. and B So. teaching, and of as much M.A. teaching as may meet local requirements. Higher things may eventually be attempted there later on when a sufficient basis may have been ereated for them. Should Government however be determined to start Decca at once as a fully-equipped Teaching University of the highest kind, Calcuite should at any rate receive an equal amount of assistance towards its own development. The Syndicate would consider themselves guilty of a decided development of duty if they failed to raise an energetic protest against any attempt to wreck the fature of Calcutta in order to exalt Dacca.

7. Richestone of a similar hind suggest them selves to the Spredictate on consideration of what is apoposed to do at Daces for the residence of the selvest of the selvest of the residence of the selvest is well understood, and the control of the selvest is well understood, and the selvest of the selvest is selvest of the selvest of

Colleges concerned and well supervised by the College authorities Some lakhs of Rupees have been granted by Government for that purpose to certain Colleges, the utilization of the grants not being under the control of the University But so far nothing has been actually done and moreover the amounts granted are absolutely insufficient to meet the real requirements The Syndicate are glad to under stand that it is proposed to make very excellent arrangements to secure the physical and moral well doing of the inmates of the Dacca Collegesthose Cotleges which exist as well as those which it is contemplated to found But they feel themselves fully justified to asking that the interests of the Col leges outside Dacca should be equally cared for The needs of Calcutta in this line are crying, long recognised, much discussed, they certainly are vastly more urgent than those of Dacca. Here at any rate there appears to be absolutely no reason for differential treatment of individual institutions, ex cept on the basis of actual difference of requirement Even if Dacca were the only Higher feaching Uni versity of the Province by far the greater part of its students would continue to belong to the non gradu ate stage, and why, one asks, should the young men reading in the Dacca Intermediate and B A. Classes be provided for on specially excellent lines, while not even the indispensably needful has been done for the corresponding sections of students in Calcutta and ever so many Mofussii Colleges P Calcutta itselfunderstanding by this term for the moment only the affiliated Colleges in the city of Calcutta-will be fully as residential' as Dacca ever can be, as soon as each of its Colleges will have been provided with a really good hostel, for in what other sense can Dacca be residential than through proper residential Colleges? As to the Mofusesi, the advisability of

providing a number of Mofussil Colleges with lotels large enough to take in considerable numbers and thereby to limit to some extent the present regrettable rush of Mofussil students to Calcuta, has clien been pointed out, but notifing has so far been done to meet this very evident requirement.

8 Throughout the Syndicate are of opinion the framers of the Dacca Report have shown themselves rather partial and forgetful of general interests. Great questions such as providing higher Teaching and Residence for the students of a whole Province -for these are the real questions Government will be called upon to consider - require to be treated in a very different spirit. The Syndicate hold it to be evident that before the plan of founding an entirely new Teaching University -which will call for very heavy mutual outley and heavy recurring expendi ture which is likely to be ever increasing-the needs and claims of existing Institutions should receive the fullest and most careful attention Calcutta, it may be emphasized once more, bee taken upon itseli certain heavy responsibilities and obligations which were not created by arbitrary Regulations framed in strict accordance with the demands of the Government of India itself. The framers of the Dacca Report may not have felt called upon to give their attention to anything but what might further the interests, and advance the grandeur and glory, of an ideal Dacca. But the Syndicate of the Calcutta University trust that the outlook of those whose task it may be to judge and eventually take action upon the Report, will be of a different kind-that it will be wider and higher, and that hence their final decisions may be fair and equitable.

THE HISTORY OF EDUCATION IN THE MADRAS PRESIDENCY

BY DR. S. SAITHIANADHAN, M.A., LL D late Professor of Moral and Mental Philosophy, Presidency College, Madras.

Board, Rs. 2-8-0. Cloth, Rs. 3.

(Published with the sanction of the Director of Public Instruction)

"The threator selecomes the appearance of this much needed volume, the publication of which was ancetoned in Proceedings No 800 and 20th January 1894. Mr Satubanadhan has spared no pass to get at facts, and having 500 them, he has presented them in an orderly arrangement, and in clert, will be chosen language. The book described in the hands of veryone engaged to adminish and in clert, will resemble 1894. The contraction of the interaction, No 18167, dated the December 1894.

This is a most useful and valuable book and well deserves the high praise the Director of Public Instruction has given it. The information is very complete, well arranged and well written —

As assumed which was much pleasure in introducing this book to all interested in the same of destation A assumed to the Director of Fabilic Instruction, Madras, the author has had tran exportanises for constituting and the same of the

AN ACCOUNT OF PROF. J. C. BOSE'S RESEARCHES.

(Reprinted from "The Modern Review."

In our last number we instited our readers to hindly place us in possession of well-authenticated information relating to all original work does in India by Indian and English professors and their students. Having asked others to do their abare of a particid cutty, we thought we should not full to do ours. So, having been among the earliest valuents of Fort. 5. C. Bose at the Calenta Fresidency College, we grint below our contributions of Fort. 5. C. Bose at the Calenta Fresidency College, we grint below our contributions of the contribution of the contributio

It is unfortunate that either through lack of knowledge or hack of opportunity, our countrymen have little deficite knowledge of the important contribution that are now being made by India to the stock of the world's knowledge. In the present number we shall only give a list of the more important researches carried out by Pro-Iose. It is our intention to publish in the relature a series of articles giving a popular secount of these.

Science is international; but we may perhaps expect a certain characteristic which distinguishes the Indian contribution. The Indian mind is eminently synthetic, and on this account when the Indian physicist undertakes to study the action of forces on matter, he is not satisfied with confining his inquiry into the realms of the inorganic alone. but must include in his broad survey the reactions of lising matter also. He annexes to the imperial science of Physics, others which go under the name of animal and plant physiology. This consideration will supply a key to the many-sided scientific schieity of our distinguished countryman. The researches which he has carried out in each branch of science will be found of fundamental importance in that bronch. How impertact there have been will appear from the short extracts, which we shall make, frem the

various scientific notices that have appeared con-

Prof. Bose's first contribution was on his discovery of→

(1) The polarisation of electric ray by crystals.—

This supplied a very important confirmation of the identity of electric radiation and light. At this time he discovered the very important property of the crystal Nemalite which as regards electric radiation, behaved like Toutmailine to light. His cert contributions were:

- (2) On a New Electro-polariscope : and
- (3) On the Double Refraction of the Electric Hay by a Strained Di-electric,

These two Papers were published in the Electrician. (December, 1895) the leading electrical journal.

The determination of the index of refraction of various subtances is of much importance; it has been possible to do this only in the case of substances which are transparent to light. But a very large number of the so-called opaque substances such as glitch, coal-tar, etc., are transparent substances when a glitch, coal-tar, etc., are transparent index for this invisible radiation offered bowers great difficulties till Prof. Box devised a method which enabled this to be done with the highest scornery.

The results of his researches were communicated by Lord Rayleigh to the Royal Society:

(4) On the determination of the Indices of Lictric Refraction .- Royal Society, December, 1895.

The Society showed its appreciation of the high scientific value of the research, not only by publication but the offer of a subsidy from the Parlinmentary grant made to the Society for the advancement of science.

His next contribution was :

(5) On a Simple and Accurate Method of deterrining the Indee of Refraction for Light .- 1891

With reference to this it may be said that Dr Gladstone, FRS, the discoverer of Gladstone's law in Optics, spoke in the highest terms of Bose's Refractometer.

His next contribution published by the Royal Society was:

(6) Determination of the Wave-length of Electic radiation Royal Society, June, 1896

At this time in recognition of the important contributions made by him for the advancement of science, the University of London conferred on Prof. Bose the degree of Doctor of Science. During his first scientific deputation to Europe

by the Government of India, he read a Paper before the British Association:

 On a complete apparatus for successingating the properties of Electric waves — British Association, Laverpool, 1896.

Among the most interesting features at the Distal-Among the most interesting features at Among and Among a

His next paper published by the Royal Society

(8) On Selective Conflictivity exhibited by Polarising Substances, Hoyal Society, January, 1897.

The behaviour of crystals like Tourmaine in exhibiting selective power of absorption of light had bitherto found no explanation. Prof Boss working with electric waves aboved that the selective transparency of crystals like Tourmaines was due to selective conductivity exhibited by them.

The fame of the Boyal Justitution of Grast Battan, readered silustrous by the labout of Days and Farday, of Rysleys and Dawar, has reached every quatered its legislated The benour of being associate deliver a Prady Evening Discourse in this Institution is regarded as one of the highest distinctions that can be conferred on a scentific man. Such a selection of the second piecond of the case of one who has done between the second of the case of one who has done between the second of the se

This offer was made to Prof Buse in the following letter:—
"It would sford the Managers of the Boyal Institution very great pleasure indeed to find that you could give a country of the profession of your original works. Exercise Radiation (which has excited as much actentific attention) and illustrated by your apparatus."

(9) Friday Evening Discourse at the Royal Institution on Electric Waves - Boyal Institution, January, 1897.

There is, however to our thicking something of are interest in the speciated presented, of a Beggies of the press descent possible feeting in London to an smill mean feeting the second possible section of a special section of a special section of the section of

"Professor Bose's description of the inductive method by which he was led to devise his form of receiver for the property of the profession of the professio

That Prof. Bose's researches have materially helped practical application will be seen from the following letter from Messrs. Murchead & Co., who hold patent for wireless telegraphy in the United States of America —

"Just a line to say how pleased we were to have the opportunity of ducessing with you the hearing of acces of the results of your recent researches apon certain practical points in the manufacture of wireless telegraphic apparatus." We have already benefited by your work in the construction of the most important part of such apparatus."

He was next invited to address the scientific societies in Paris

"Professor J. C. Bose exhibited on the 8th of Marchelors the Stothone, an apparatus of his Investion for demonstrating the laws of reflection, refraction and polarisation of electric waves. He repeated his experiment on the 12cd, before a large number of members of the Anderdine does Science, among whom were Division, the Anderdine does Science, among whom were Division for the Anderdine does Science, among whom were Division for the Lorentz Expending values and the second section of the Industry Professor." Acres Exceptinger Paris,

The celebrated physicist, Professor Cornu, President of the Academy of Science, wrote to him:---

"For my own part, I hope to take full advantage of the perfection to which you have brought your apparatus for the benefit of the Eoole Tolystechnique and for the very fine results of your research to the Eoole Tolystechnique are full results of your research testify to your power of furthering the progress of acience. You should try to review the great distributes of your zere, which how no versive the great distributes of your zere, which how the tributation of the testing of the progress of the perfect of chilliant to the perfect of the perfect of the perfect of the galland you and which you every success," in France Spikad you and which you every success,"

He was next invited to lecture before the Universities in Germany. At Berlin he gave, before the leading physicists in Germany, an address which was subsequently published in the Physikalischen Gesellschafe.

(10) On Electromagnetic Radiation.-Physik-Ges. Za Berlin, April, 1897.

The Royal Society next published his Paper :

(11) On the determination of the Index of Refroction of Glass for the Electric Ray.

In this he showed the unexpected increase of the index of refraction of glass under ether ribration of slow frequency this explained the

theoretical difficulties raised by certain electrical properties of glaza.

The thinnest film of sir is sufficient for producing total reflection of light with its extremely short wavelength. But with the longer wares, Professor Dose discovered a new phenomenon, an

account of which was published by the Royal Society.

(12) On the Influence of Thickness of Air space on Twest Reflection of Electric Resistion - Royal Society, November, 1927.

It was shown that the critical thickness of the air space was determined by the refracting power of the pram and the ware-length of radiation. It opened not a possibility of new methods of determining the index of refraction and also the wavelength.

Certain substances produce rotation of the plane of rolamation of hight. Professor Bose discovered

similar rotation of the plane of polarisation of electric wares.

(13) On the Rotation of Plane of Polarisation of Electric Wates by a Twisted Structure.-Royal Society, March, 1898.

He constructed two kinds of artificial molecules, which rotated the plane of polarisation to the right or to the left, analogous to the effects produced by destrose and levulose. As a result of this research many of the obscurities in the phenomenon of Motation were cleared up.

(14) On the production of a "Dark Cross" in the Field of Electro-magnetic Radiation.—Royal Society, March, 1898.

This important research rereals the circular molecular arrangement of various bodies. A disso of wood with concentric rings was shown to produce polarisation effect similar to that exhibited by crystals like Salicine.

(15) A Self-recovering Coherer and Study of Cohering action of different metals.-Royal Society, March, 1899.

The effect of electric radiation on fragments of metals has hitherto been regarded as due to coher-lie and the regarded as due to coher the control of the c

(16) On the Electric Touch and the Molecular changes produced in Matter by the action of Electric IF gree. - Royal Society, February, 1900.

Instead of so called cohering action, the effect of electric radiation on matter is shown to be one of discriminative molecular action; it is further shown that the effect of radiation on metallic particles it to produce molecular or allocropic, changes, attended by changes of electric conductivity.

A description of Prof. Bose's apparatus and an account of his researches on electric radiation will be found in the New Edition of the Encyclopedia Britannica. Frequent references to his contributions will also be found in the classical work of M. Poincare, on Electric Warses.

During his researches on the behaviour of different receivers, he was led to the discovery of tarious reactions in inorganic matter parallel to those of hring matter, the result of these researches were given in his Address to the International Congress of Science at Paris, during his second scientific deputation to Europe by the Government of India.

(17) De la Generalite des Plonomences Moleculaires produite par Flectrette sur la motiere In organique et sur la matiere Vicante—Fravaus du Congres International de Physique, Paris, 1900.

He read another paper before the British Association

(18) On the similarity of effect of Electric Stimulus on Inorganic and Living Substances.— British Association, Bradford, 1900

The investigation of this subject was carried on later by the employment of a method altogether different, but which siforded independent support to the pressure results.

different, but which afforded independent support to his previous results

(19) On an Artificial Retunn—Exhibited et

British Association and Royal Institution, 1900. Prof Bose exhibited an artificial eye the interior mechanism of which was such as to enable it to give an electric response to radiation of every description whether ordinary light, or Hertzian or Hontgen rays Like all the inventive work of its originator it exhibits a marvellous delicacy and perfection of workmanship combined with a degree of simplicity in which few inven-tions can rival those of Dr Bose. As to the mode of action of this eye we believe that it involves an effect the discovery of which is originally due to Dr. Bose: it may be convenient to describe this as the Bose effect. The model is not a mechanism capable of merely imitating the phenomena of vision, it goes much desper and acts in identically the same manner as the living eye acts when sending an impulse to the brain on being exposed to light, Dr Boses model, therefore, essentially embodies a physical theory of vision. Such a sensitive receiver of electromagnetic radiation, perfectly prompt as it is also in its sell recovery after stimulus, should serve to re volutionise existing methods of wireless telegraphy and netheric signalling - Electrician

Certain characteristics of his artificial retiral led Perf. Bose to predict that the human retiral should eithink blocoular alternation of vision—a pominarity which was quite supported For distection of this peculiarity he invented a repeata apparatus by mean of which between the product of the product of

(20) On Benecular Alternation of Vision -Physiological Society, London, 1900

His next contributions published by the Royal Society related to the action of light on matter

(21) On the Continuity of effect of Light and Electric radiation on Matter - Hoyal Society, April, 1901.

(22) On the Similarities between Mechanical and Radiation Strain - Royal Society, April, 1901,

In his next paper he advanced a new theory of photographic action, which explained many anomalous results

(23) On the Strain Theory of Photographic action - Royal Society, April, 1901

At the British Association meeting at Glisgow be described a new method of investigation for determining the molecular change produced in metal by electric variation.

(24) On the Change of Conductivity of Medallic particles under Cyclic Electromotive Variation.— British Association, 1901.

(25) The Conductivity Curvegraph. -- British Association, 1901.

The very thorough study which has been given to the curious action of otherse by Frolesor Jageda Chunder Ries renders his paper before the British Association (kajaroja a very important octivation to whole study through the control of the control

Prof Bose was for a second time honoured with the request from the Royal Institution to give a Friday Evening Discourse.

(26) On the Response of Inorganic Matter to Stimulus - Friday Erening Discourse, Royal Institution, May, 1901.

"The lecture on The Response of Inorganic Matter to Machanical and Electrical Stimulus which Dr J C Bose delivered at the Royal Inestitution last Finday evening, affords a striking illustration of the far reaching character of the long and elaborate zeries of researches which the lecturer has been carrying on during the past few years

All there researches have nondered breviatable assistance, both in the progress of termilial research in the selections/pastite related in proper and the practical improvements related to the practical improvement and the selection of the progress of terminial research in the selection of the progress of product as the subject for last Printips of anosense carry as further than the progress of publication and the progress of publication and the replaces of publication and the replaces of publication and the progress of publication and the product of publication and the progress of publication and the product of the publication and the publication of physical publication and the publication of physical publication and publica

specially, of the Presidency College of Calcutta."---

Prof. Bose's next subject of inquiry was whether the ordinary plants were not fully sensitire. The presaling rises was against such supposition. It, however, was successful in devising a new node of investigation by which the universal sensitiveness of plants was fully denonstrated before a special meeting of the Linnean Society.

(27) On the Electric Response in Ordinary plants under Mechanical stimulus.—Linnean Society, March, 1902.

Prof. Boe performed a series of experiments before the Linean Society howing electric response for extent portions of the plant organism, which proved that as concerning fatigue, behaviors at high and low temperatures, the effects produced by poinces and strenthelist, the approxes are floatinal with those hibstern being to be characterials of mules as those hibstern being the property of the contraction of the contraction of the series and the series are the same in his similar and plants, and that the electrical responses which he had demonstrated are but no common physiological properties of these." Austres.

Prof. S. H. Vines, F. B. S. President of the Linnean Society, wrote to the author:-

Note represent such as the temporal doubt that all are Your experiments must be temporal doubt that all most in the which are known to be motified any first able, and manifest their irritability and sciential response to summistine. This is an important step in advance, and will, I hope, so the starting point of enture researches to include what is the sature of the molecular condition which constitutes irritability, and the bunderials related to the summission of the molecular conditions with the contribution of the bunderials related indicates the summission of the summission of

The President of the Botanical Section at Belfast in his address said :-

"Some very statistics results were published by Boss on the Electric Response in endinery plants. Bores's levestigation established a very close similarity in inhardner established a very close similarity in inhardner takes were observed and fatigue effect demonstrated, while it was deficitly shown that the responses were phytological. They created as come as the piece of tissue was killed by heating. Thus observations strengthen was killed by heating. Thus observations strengthen and and the greatest personalers, and and the solmal and the greatest personalers."

(28) Sur la Reponse Electrique de la Matiere Vivante-Society de Physique, Paris, 1902.

(39) On the Bleetrometive Wave accompanying Mechanical Disturbanes in Metals.—Royal Society, May, 1902.

He was next asked by the Royal Photographic Society to give a Discourse on his Strain Theory of Photographic Action.

(30) The Latent Image and Molecular Strain Theory of Photographic Action.—Transactions, Photographic Society, London, June, 1902.

His next communication was to the Linnean Society giving an account of his discovery of rhythmic electric pulsation in the Telegraph Plant.

(31) On the Electric pulsation accompanying Automatic movements in Desmodium gyrans.—Linnean Society, 1902.

His next work gives a complete account of the investigations on the response of inorganic and living substances.

(32) Response in the Living and the Non-Living.—Longmans, Green & Co., 1902.

"The responses in plants and metals were shown by Professor Bose, to be modified exactly in the same way as animal tissues are modified, there being not a single phenomenon in the response in muscle or nerve that has not an exact parallel in the response of metal and plant, Just as the response of animal tissue is found to be exalted by stimulants, lowered by depressors and abolished by polsons, so also it is found that under the action of appropriate reagents the response in plants and metals undergoes similar exaltation, depression or abolition, The conclusion reached by Prof. Bose, therefore, is that capacity for response is not confined to living tissues the living response in all its diverse manifestations is but a repitition of phenomena exhibited by the inorganic. there is in it no element of mystery or caprice, as is admitted on the assumption of a hypermechanical 'vital force' acting to contradiction or defiance of those physical laws that govern the world of matter; the response phenomena are not determined by the play of an unknowable and arbitrary vital force, but by the working of laws that know no change, acting equally and uniformly throughout the organic and inorganic world, "-Engineering Magazine,

"Dr. Bose's remarkable apperiments on living and dead matter show that there is a continuous transmitton from the one kind of matter to the other, and that come large, and matterlar are capable of being silministed, faitgord, poisoosed and temporarily 't killed'. Thus another function of iring matter has been ancested to physical science, or of iring matter has been ancested to physical science, or absolutely closed. The strength of the standard of the base opened up a field which was litherts considered absolutely closed."—Elegrances.

-1. C. Bose, in his Response to the Listing and the Non-Living, silest howing that under electrical simulity plants exhibit fatigue, etc., and are affected himse has been proposed as a superior of the same proposed to the same proposed t

Herbert Spencer wrote to the author :-"Notices of your investigations have from time to time excited my interest. The topic is one of extreme interest.

and one which in earlier years would not improbably have received dos recognition in my book "

During the next three years (1903—1905) Prof. Bose turned his attention to researches into the various responsive reactions of plants. For this he invented a number of original types of recorders which revealed many numberated phenomena in plant-life. We give accounts of only the most important of these

(33) The Mechanical response of Ordinary plants.

By means of his delicate instruments he demonstrated that even ordinary plants gare motile response.

"These effects (of contraction) are observable not only is seconited "sensitive plants, but in still living parts of plants, and it is a definite advance due to Dr. Bears.

delicate experimentation, to have it shown that all radial organs, atems styles and stamens, shorten on ationals tion "-Veters" (34) Fficets of Drugs on Response of Plants.

In this he demonstrated the remarkable similarities of effect produced by drugs in plant and animal.

(35) Deoth spasm in plants.

No sign has hitherto been found to determine the exact moment of the death of a plant. Prof Bose discovered that a spain passes through the plant at the critical moment

(36) The Morograph,

This instrument records the critical point of death of the plant with great exactness. It also demonstrates the translocation of the death point under different conditions

(37) Polar Effect of Current in Excitation of plants.

This important discovery by Prof. Bose shows that the excitatory reaction in a plant is determined by the point of early or exit of an electric current. It catablishes the identical nature of excitation in the animal and the vegetal protoplasm.

(38) Electro tones in plants.

In this the variation of excitability Induced by Acode or Kathode, is demonstrated to be identical in the case of animal and vegetal treaus.

(39) Electro-tactile Response

This discovery furnishes a new mode of detecting the passage of excitation in plants.

(40) Multiple response in plants

The discovery of repeated responses in plants under strong stimulation, led to the elucidation of the most obscure phenomenon of spontaneous mosements.

(11) Inquiry into Causes of Automatic pulsa-

One of the most intricate phenomena in physiology, is the occurrence of spontaneous morement, so-called. No satisfactory explanation has been offered to account for it. As a result of a long course of investigation, Prof Bose succeeded in tracing the senting cause

This is a next valuable and interesting accounted experiments, efficiency an explanation of autonomous norms must, and its relation to multiple response. After a careful persual of this, one is considered that "Antonical Control of the control of the control of the relation for more must, which we old not information, and for which we could see no immediate allumints. Experiments here described on Burghysen and Demonstrate the wear of the relation of the rel

Prof. S. II. Vines, F.RS, President of the Linnean Society, wrote to him:-

"It seems closely, were to them """

11 seems closely that you have remainised be accom"" It seems close that you have remainised by accomledge of the response of plants is stimulus. Spontaneous
movements have slavely been additionally, that you were
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(42) Influence of Temperature on Axiomatic response.

In this is shown the parallelism of effect of temperature on rhythmic plant masse and the cardiac masse of the animal.

(43) Effects of various Drugs on the Rhythmic puleation of plant

Among the most interesting of the argentization these desiling with the section of arge. The felentity of phenomena in both the contractile and rhythmic since of animals and plasts is most riching. The subtract of a since and argent the subtraction of the riching the subtraction of the riching the subtraction of the riching the subtraction of the subtra

He next investigated the important problem of (44) The Different Effects of Drugs on Plants of Different Constitutions.

By subjecting a specimen to certain specific conditions, he was able to make it immune to the action of poison from the effect of which others succumbed.

(45) The Shoshungraph for Researches on the Accent of Sap.

This is a new type of instrument invented to record the suction of liquid by the plant.

(46) The Grouth Recorder.

Accurate investigation on the phenomenon of growth has been rendered possible by the invention of this apparatus, which records and gives instantaneous measurement of the rate of growth.

"The apparatus and the experienceals arthode employed show great ingeneity and praismostly simple directions from the form of the property of the control of

(47) The Bulanced Crescograph.

This instrument based on a novel principle is employed for determining the influences of various agencies on growth.

(48) Researches on Thermo-crescent Curve.

This is a long investigation on the effect of temperature on growth, and the determination of optimum point of growth-

(49) Researches on Positive and Negative Geotropism.

The outcome of this investigation is to show that the opposite reactions of growth on the shout and the root are not due, as has been supposed, to two different sensibilities but to the differences in the points of application of stimulus in the two creece.

. (50) Determination of the Laws of Growth,

Certain important factors in growth discovered by Prof. Rose, had not bitherto been recognised. Taking account of these, a complete law of growth currature is enunciated.

(51) Fundamental Responsive action of plant to the Stimulus of light,

(52) Researches on Positive and Negative Heliotropism.

All the various responsive inovements of plants under the action of light is shown to result from certain definite and fundamental reactions.

(53) Researches on Diurnal Sleep.

(54) Torsional response under Stimulus of Light and Gravity.

The conditions which determine this response are traced and a law enunciated.

Prof. Bose next published his exhaustive work on responsive reactions of plants.

(55) Plant Response as a means of Physiological investigation.—Longmons & Co. 1906.

A biologically equipped reader will experience densited admination for the logical progressic way, in which the author biolics up, not in words, but actually experience the logical progressic way, in which the author biolics up, not in words, but actually experience to the progressic way of the logical property of the plant; the prospect of the critical sense; in the plant; the prospect of the critical sense; in the plant; the property of the plant way of the plant way of the plant will be considered to propose of the progressic for state in the course of the book. All such experimental cross-reassination will make for the progress of knowledge, and we think that Dr. Boos can olden that his book will be an external pluming to claim just well propose of the progressic formed the pro

"This book may be acclaimed as a path-breaking one; for it shows a method of attack and reflorment of instrumentation for the study of the phenomena of irritable reactions in plants, that is sure to be of the utmost serior"—Beleascal Gentile.

» Prof. Bosts work is a monament of scientifically directly all bedustry, patient observation, far-reaching inception and begind in the state of the

"The work represents as scormons stride in our conception of the vegatible kingdom. It throws light on many problems in general physiology, and is when the problem to believe the constant of the physiology and the problem. It follows and clearly demonstrates, that the various region of the centide world indescent the vegatable like the animal organism, and by a more or less similar mechanism,"— Extertical Region.

"With the appearance of the important book by Professor Boss, on "Hank Begroom," we have for the bad as a conception which embraces all the expressed some persecutiveness "of plants. We sure now presented with a complete theory of thick movements, We may add that it is now which no plants "physiologist can afford to ignore, which no student of any orance to botsay should overlook, and which should prove aggeutive to animal

physiologists, possibly even to psychologists,"-The

"It may be subscittingly said that a careful reader of the present volume must be impressed by the ingenuity of device and the delicacy of manipulation obvious throughout the whole of the experimenting. Assuming that the instruments work exactly so described it is difficult to reach conclusions which differ materially from those stated by Professor Bose"—American Journal of Science 1997.

His theory of the feadamental outformity of all plactresponse scratially most thomseling and one for response scratially most thomseling and one for the harbogs forward a great weight of evidence. The value of his book is on the scroom through put forward, and in the fact it at he is the first to apply to the said of place to pease, appearing which he has detorated to an extra the method of stack on the problems of mitability in plants "". Jorean's of Bosany

the Plant Response, various excitatory effects were detected bу means of mechanical response and recorded by the specially sensitive instrument invented the purpose Prof Bose next turned his attention to discover and perfect other methods of investigation by which the various invisible excitatory reactions in the plant, induced by different forms of strault, could be detected and recorded. The methods now employed were electrical, by means of which various response phenomena were discovered to the plant, the existence of which was quite unsuspected. These particular investigations were carried on for the next three years from 1906 to 1909

(57) The Electromotive Response of plant

This gives an account of the result of research on various effective methods of quantitative stimulation of the plant, and the electric record of the resulting response

(58) The Relation bet wen Stimulus and Response
Weber Fechner's law is shown to be applicable
to the plant-response as in that of the animal

(59) Rheotomic Observation of Electric Response of plans

This research determines the time-relation of initiation, climax and decline of electrical response (60) Demonstration of Dual Character of Response in this is given an account of the discovery of

the existence of two distinct kinds of response, the argus are opposite. The discovery of positive response throws light on many physiological reactions which had hitherto been regarded as very obscure

(61) Detection of Physiological Anisotropy by Electrical Response

An account is given how owing to the differences in the previous bistory, different parts of as isotropic organ become anisotropic, an electrical method is described to detect such physiological anisotropy.

(62) Natural Current in a plant and its

This investigation was carried out to determine the condition under which there is a flow of electrical current in a plant, and the changes in the current

(61) Electrical Investigation on the Action of Drugs on plant tissue

The physiological change induced in the plant tissue by various drugs is determined by means of variation of electrical response.

(64) Determination of Variation of Excitability of plant tissue by Method of Interference

Into is a new and extremely delicate method by which a sight physiological change is detected

(65) The current of Injury and Negative variation in plant.

(68) Current of death
(67) Effect of Temperature on Electrical Re-

eponse (68) The Electrical spasm of Death.

This is a remarkable phenomenon discovered by Prof. Bose, of a sudden electrical current generated in the organism at the critical moment of death

(69) Multiple and Autonomous Electrical Re sponse.

It is here shown how the electrical response

becomes repeated under a single strong simulus. This is an independent demonstration of the fact that living tase is can store up, for the time being, the energy of its environment, to be given out later in the form of repeated palsations.

(70) The Electrical Response of Leaves

It has been supposed that the leaf of Diomats was alone sensitive. This research shows that every leaf is excitable and gives electrical response on excitation

(71) The Leaf considered as an Electrical Orgin.

It is shown that owing to physiological anisotropy of the upper and lower surfaces of lacres, a feeble electrical discharge takes place across the leaf when certain conducting tissues in the peticle are excited.

(72) The Theory of Electrical Organ.

The complex organ of the electrical fish consists of a series of plates. Prof. Bose shows that the electric action of each plate is fundamentally the same as that which causes an electrical discharge in a leaf. In connection with this has shows that he so called "blure current" which has been supposed to discriminate a vital reaction, is observed also in certain inorganic preparation made by him.

(73) Researches on the Electrical Response of Skin, Epithelium, Gland and Digestive organs in plant and animal.

(74) Electric Response of plant to the Stimulus of Light,

The various characte, ties of the response of plant to light is shown to be to the electric reaction of light on an animal retina.

(75) Geo-electric Response.

of excitatory change.

In this research is described a new method of detecting excitation induced in the plant by the stimulus of gravity.

(76) The Conductivity Balance.

The invention of this method enables very accurate determination of the effect of various drugs on the conductivity and excitability of the plant-tiane.

(77) Response by Variation of Electric Re-

sidivity.

Another new method depending on variation of electrical resistance, is described for the detection

(78) The Molecular Theory of Ezcitation and its Transmission.

In this the author enters into detail of the molecular aspect of excitatory charge induced by stimulus.

(79) Inorganic and organic Memory.

"Froi, Dose puts, forward an interesting interp of numery as an after-effect of enescry situatiation, and drait with the much more difficult problem of the retried case inage long after it has appearently fielded, which is a super-entropy of the super-entropy of the problem on the suitance of forms "cas" or fined impration on the basis, or one a certain persistent disposition on the basis, or one a certain persistent disposition of the place, or one certain persistent disposition of the place of the super-entropy of the three controls of the suitance of the supertition of the super-entropy of the superting of the super-entropy of the superdisting, delivered as a blow from whiting by an impulse and the super-entropy of the super-entropy of the listing, delivered as a blow from whiting by an impulse in interest and the super-entropy of the superdisting, delivered as a blow from whiting by an impulse in interest and the super-entropy of the superpersion of the super-entropy of the superdisting, delivered as a blow from whiting the superpersion of the super-entropy of the superpersion of the super-entropy of the superpersion of the super-entropy of the superentropy of the super-entropy of the super-entropy of the superentropy of the super-entropy of

His next work is a complete study of various electric responses in plants and their relation to the corresponding phenomenon in the animal, treated according to the comparative method.

(80) Comparative Electro-physiology.-Long-mans & Co., 1908.

We must regard the common divisions represented by the various sciences - say physics and biology - as purely man-made categories, excusable, and indeed convenient for our purposes, but without any ultimate warrant in reslity. We shall, therefore, always be prepared to listen when a atudent of one science introduces his methods into another. It might easily be shown from the history of science that the great steps in our knowledge have coincided with these invasions, it might also be predicated from current in-opiries in many fields that the great scientific achievement of our century will be nove other than the synthesis of the sciences. The less we recognise boundaries and demarcations, the more we reorgaise the supreme truth. Notable at the present day, amongst those who show how puny and artificial and cramping are the accepted barriers among the sciences, is the Indian Physicist, Prof. J. C. Hore of Calcutta. Seven years ago Dr. Bose began with inquiries into response in the living, and non-living which he has now carried a long stage further in his book "Comparative Electro-physiology,"- Westminster Gazette,

The electrical physiology of mucels and nerse has undergone many changes both in theory and practice. It undergone many changes to the text of a dynamics and the common color apparatus of the scientific changes in the person mescales apparatus of the scientific world. The knows changes occurring in the lociancia world. The knows changes occurring in the lociancia world. The change occurring in the lociancia world. The contract of the extremely difficult subject of the city-physiology. His observations are useful salits to the physiologist (central psychologist), the physician and the psychologist world of the contraction of the cont

"This book will interest a large circle of scientific, needen, dealing as it does with the professor of picture, below, physiology and experimental psychology. The substy, when we see in Regland, acquired a reputation for the still ard fingensity with which his appearance was the substy of the still ard fingensity with which his appearance was the substy of the still are of the substy of the

The representation of the tools on Response in the Living of a sequence to like tools on Response (1907) From Teach Response (190

cannot he regarded as a sign of life, his domonatration on the mobile leaflets of Biophytus of the anodio and kathodic effects of constant current, and the velocity of transmission of excistory waves, his comparison of releasiveness of molecular change in metals with memory, in fact the whole book abounds in interesting matter skilloily wover together "- After."

After the publication of the Comparatus Electrophysiology, the Government of India seat Frot, Bose on his third Scientific Deputation to the West (1908-1909) In snewer to intritions extended to him by different Universities and Solvent Assessment of Science and America and own researcher Higgree and America and own researcher Higgree and America and own researcher Higgree and America and control of the American Aerocation for the Advancement of Science beld at Baltimore, and lectured before the New York Botamusl Society, the Midwell Society of Botson, and the Scienty of Determ Engineers at Chingon He side oblivers Determ Engineers at Chingon He side oblivers and Plant-physiology at 100 to on Electro-physics and Plant-physiology at 100 to on Electro-physics and Plant-physiology at 100 to on Electro-physics

The United States D partment of Agrandium; is the largest in the word, controlling as it does numerous experimental stations and having in its stall a very large number of experts for investigation into the problems of plant-life. He received gatom into the problems of plant-life. He received gatom into the problems of plant-life. But the plant of the pl

We have given a lat of 50 important investing Altona carried outdoming fifters yare, between the years, 1855 and 1910-investigations that have profoundly affected not one, hot many branches, of scenor. We understand that another way functions and stended series of investigations and the last two years has pust been brought to a couch me fact that years have been supported in the found of the profit of the profit been depended in the coming pear.

Ore of the seantial condatons for the discovery of new physical or by independ phenomena, as the successful intention and charge of a printing which should combine at the same of a spiration sensitives and the highest according, for this set only for this set only available to Western constitution of the second of the second of the second with expect mechanicans and high-class units maximizers. The bett of such facilities was regarded as one of the difficulties that could not be surrounted in toda. Fort, loos accepted the

limitations imposed, and accessed with the help of Indian workness in constructing lines instrument of expanits delicacy, which were an invalidable for research, and which have ceen as help? subject in Europe. It must be a matter of much graidles tone to in that America, which stands survivaled in her nechanical and instrumental resource, should have to come to India for instruments of search. The following latter from Prof. It like per of the Department of Plant Physiology in all University of Wisconsin will be read with further thousand the professional professional and the professional profess

" I wish to express to you once more goz early high sp preciation of the stimulus and inspiration which you gave our biological work by your secent lectures at the University of Wisconsin - Toy attracted a great deal of attention in all the scientific departments here. I wish to urge sgain the very great importance for all the Universities and Agricultural Colleges in which plant physiology is taught of having your instrument put in the market to that they will be available for all taboratories In our course in general physiology, we have for several years repeated and confirmed such of your simpler experiments as can be made with a gelvenometer and we are more anxions to extend our work to the whole field of the quadtitative study of plant responses which you have opcosed up Plant physiology is a subject of such fundamental algoideance from the standpoint of agriculture, and the courses in it are being so rapidly developed is the West-ern Universities, that I am sure that there would be a good demand for such apparatus. It is certainly of first importance for agriculture, that such studies as yours on the seasonal variation of condition in pixels, rate and factor of growth and so on should be developed in our departments of plant physiology to the foliost extent, and for this purpose apparatus for quantitative studies is quite indispensable.

- The Modern Review, December, 1912.

Living and Non-Living

For of in can reshies the difficulties that stand in the way of a pioner who matters a new inco of inquiry. He has no make lampble what had hitherto remained beyond the companion of human senses. Dot this is not his only difficulty. A new accession of knowledge necessarise there-registrates of the old. Conservation in assects as a rigorous as in any other domains. It therefore takes a long time before the agonificancy of a discovery is fully realised.

In the study of the phenomenon of life, the difficulties met with are so numerous that any attempt at a consistent explanation had been found to be a hopeless task. Hence a hypermechanical vital force was assumed which seemed to set in contradiction or defance of the physical laws that govern the world of matter.